DSC-T700

SERVICE MANUAL

LEVEL 2

Ver. 1.2 2009.10
Revision History

Internal memory
ON BOARD

Photo: Silver

US Model
Canadian Model
AEP Model
UK Model
E Model
Australian Model
Hong Kong Model
Chinese Model
Korea Model
Argentine Model
Brazilian Model
Thai Model
Japanese Model
Tourist Model

Link

- SPECIFICATIONS
- BLOCK DIAGRAMS
- PRINTED WIRING BOARDS
- SERVICE NOTE
- FRAME SCHEMATIC DIAGRAM
- REPAIR PARTS LIST
- DISASSEMBLY
- SCHEMATIC DIAGRAMS

- Precaution on Replacing the SY-208 Board

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

DIGITAL STILL CAMERA

SONY®

DSC-T700_L2
9-852-607-33

Sony EMCS Co.

2009J0800-1

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SPECIFICATIONS

Camera

[System]

Image device: 7.7 mm (1/2.3 type) color CCD, Primary color filter
Total pixel number of camera: Approx. 10.3 Megapixels
Effective pixel number of camera: Approx. 10.1 Megapixels
Lens: Carl Zeiss Vario-Tessar 4× zoom lens
f = 6.18 – 24.7 mm (35 – 140 mm (35 mm film equivalent))
F3.5 (W) – F4.6 (T)
Exposure control: Automatic exposure, Scene Selection (11 modes)
White balance: Automatic, Daylight, Cloudy, Fluorescent 1,2,3, Incandescent, Flash
Underwater White Balance: Auto, Underwater 1,2, Flash
File format (DCF compliant):
Still images: Exif Ver. 2.21 JPEG compliant, DPOF compatible
Movies: MPEG1 compliant (Monaural)
Recording media: Internal Memory (approx. 4 GB*), "Memory Stick Duo"
* When measuring media capacity, 1GB equals 1 billion bytes, a porton of which is used for system management and/or applicaton files. The capacity that a user can use is approximately 3.71GB.
Flash: Flash range (ISO sensitivity (Recommended exposure Index) set to Auto):
Approx. 0.08 to 4.3 m (3 1/4 inches to 14 feet 1 3/8 inches) (W)/
approx. 0.5 to 3.4 m (1 feet 7 3/4 inches to 11 feet 1 7/8 inches) (T)

[Input and Output connectors]

Multi connector:Video output
Audio output (Monaural)
USB communication
USB communication: Hi-Speed USB (USB 2.0 compliant)

[LCD screen]

LCD panel: Wide (16:9), 8.8 cm (3.5 type) TFT drive
Total number of dots: 921 600 (1920 × 480) dots

[Power, general]

Power: Rechargeable battery pack NP-BD1, 3.6 V
NP-FD1 (not supplied), 3.6 V
AC-LS5K AC Adaptor (not supplied), 4.2 V
Power consumption (during shooting): 1.2 W
Operating temperature: 0 to 40˚C (32 to 104˚F)
Storage temperature: -20 to +60˚C (-4 to +140˚F)
Dimensions: 95.0 × 58.4 × 16.4 mm (3 3/4 × 2 3/8 × 21/32 inches) (W/H/D, excluding protrusions)
Mass (including NP-BD1 battery pack and strap etc.): Approx. 160 g (5.6 oz)
Microphone: Monaural
Speaker: Monaural
Exif Print: Compatible
PRINT Image Matching III: Compatible
PictBridge: Compatible

[Password]

Release number: 7669

BC-CSD battery charger

Power requirements: AC 100 V to 240 V, 50/60 Hz, 2.2 W
Output voltage: DC 4.2 V, 0.33 A
Operating temperature: 0 to 40˚C (32 to 104˚F)
Storage temperature: -20 to +60˚C (-4 to +140˚F)
Dimensions: Approx. 62 × 24 × 91 mm (2 1/2 × 31/32 × 3 5/8 inches) (W/H/D)
Mass: Approx. 75 g (2.7 oz)

Rechargeable battery pack NP-BD1

Used battery: Lithium-ion battery
Maximum voltage: DC 4.2 V
Nominal voltage: DC 3.6 V
Capacity: 2.4 Wh (680 mAh)

Design and specifications are subject to change without notice.

CAUTION
Danger of explosion if battery is incorrectly replaced.
Replace only with the same or equivalent type.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFÉS PAR UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈSES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPÉMENTS PUBLIÉS PAR SONY.

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety checks before releasing the set to the customer.

1. Check the area of your repair for unsoldered or poorly-soldered connections. Check the entire board surface for solder splashes and bridges.
2. Check the interboard wiring to ensure that no wires are "pinched" or contact high-wattage resistors.
3. Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.
4. Look for parts which, through functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement.
5. Check the B+ voltage to see it is at the values specified.
6. Flexible Circuit Board Repairing
   - Keep the temperature of the soldering iron around 270˚C during repairing.
   - Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
   - Be careful not to apply force on the conductor when soldering or unsoldering.

Unleaded solder

Boards requiring use of unleaded solder are printed with the lead-free mark (LF) indicating the solder contains no lead.
(Caution: Some printed circuit boards may not come printed with the lead free mark due to their particular size.)

: LEAD FREE MARK

Unleaded solder has the following characteristics.

- Unleaded solder melts at a temperature about 40°C higher than ordinary solder.
  Ordinary soldering irons can be used but the iron tip has to be applied to the solder joint for a slightly longer time.
  Soldering irons using a temperature regulator should be set to about 350°C.
  Caution: The printed pattern (copper foil) may peel away if the heated tip is applied for too long, so be careful!
- Strong viscosity
  Unleaded solder is more viscous (sticky, less prone to flow) than ordinary solder so use caution not to let solder bridges occur such as on IC pins, etc.
- Usable with ordinary solder
  It is best to use only unleaded solder but unleaded solder may also be added to ordinary solder.

注意
電池の交換は，正しく行わないと破裂する恐れがあります。電池を交換する場合には必ず同じ型名の電池又は同等品と交換してください。

サービス，点検時には次のことにご注意下さい。

1. **注意事項をお守りください。**
   サービスのとき特に注意を要する個所については，キャビネット，シャーシ，部品などにラベルや捺印で注意事項を表示しています。これらの注意書き及び取扱説明書等の注意事項を必ずお守り下さい。
2. **指定部品のご使用を**
   セットの部品は難燃性や耐電圧など安全上の特性を持ったものとなっています。従って交換部品は，使用されていたものと同じ特性の部品を使用して下さい。特に回路図，部品表に⚠印で指定されている安全上重要な部品は必ず指定のものをご使用下さい。
3. **部品の取付けや配線の引きまわしはもとどおりに**
   安全上，チューブやテープなどの絶縁材料を使用したり，プリント基板から浮かして取付けた部品があります。また内部配線は引きまわしやクランパによって発熱部品や高圧部品に接近しないよう配慮されていますので，これらは必ずもとどおりにして下さい。
4. **サービス後は安全点検を**
   サービスのために取外したネジ，部品，配線がもとどおりになっているか，またサービスした個所の周辺を劣化させてしまったところがないかなどを点検し，安全性が確保されていることを確認して下さい。
5. **チップ部品交換時の注意**
   - 取外した部品は再使用しないで下さい。
   - タンタルコンデンサのマイナス側は熱に弱いため交換時は注意して下さい。
6. **フレキシブルプリント基板の取扱いについて**
   - コテ先温度を270℃前後にして行なって下さい。
   - 同一パターンに何度もコテ先を当てないで下さい。（３回以内）
   - パターンに力が加わらないよう注意して下さい。
7. **無鉛半田について**
   無鉛半田を使用している基板には，無鉛（Lead Free）を意味するレッドフリーマークがプリントされています。
   （注意：基板サイズによっては，無鉛半田を使用していてもレッドフリーマークがプリントされていないものがあります）
   ：レッドフリーマーク
   無鉛半田には，以下の特性があります。
   - 融点が従来の半田よりも約40℃高い。
     従来の半田こてをそのまま使用することは可能ですが，少し長めにこてを当てる必要があります。
     温度調節機能のついた半田こてを使用する場合，約350℃に設定して下さい。
     注意：半田こてを長く当てすぎると，基板のパターン（銅箔）がはがれてしまうことがありますので，注意して下さい。
   - 粘性が強い
     従来の半田よりも粘性が強いため，IC端子などが半田ブリッジしないように注意して下さい。
   - 従来の半田と混ぜて使用可能
     無鉛半田には無鉛半田を追加するのが最適ですが，従来の半田を追加しても構いません。

1. SERVICE NOTE

ENGLISH | JAPANESE

1-1. NOTE FOR THE INTERNAL MEMORY

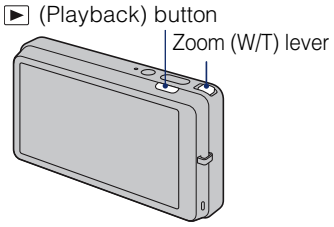
When a “Memory Stick Duo” is inserted in the camera, images are recorded on the “Memory Stick Duo”.
Note that the camera cannot copy or transfer images directly between the internal memory and a “Memory Stick Duo”. Use the “PMB”.

1-2. PASSWORD LOCK

Once the password is set, images in the internal memory cannot be played back.
In case of needing to read images in the internal memory from the password locked set, release the password locking.

Releasing the Password Lock

1. First turn off the camera’s power. Then press ▶ (Playback) button while moving the zoom (W/T) lever to the W side.
2. The power is now turned on, and the password release screen apears → touch [OK]
3. Enter the password release number ‘7669’ → touch [OK] → [OK]



1-3. PMB PORTABLE

The application “PMB Portable” has already built in the internal memory.
The SY-208 board for repair is supplied with the built-in application “PMB Portable” .
In case of replacing the internal memory with new one, it is necessory to write the application “PMB Portable” in it.
For writing procedure, please refer to the PMB guide.

1-4. PRECAUTION ON REPLACING THE SY-208 BOARD

Note 1: When replacing the SY-208 board, erase the data in internal memory of the board before replacement.
Note 2: When replacing the SY-208 board, execute formatting and initialize the internal memory after replacement.

DESTINATION DATA

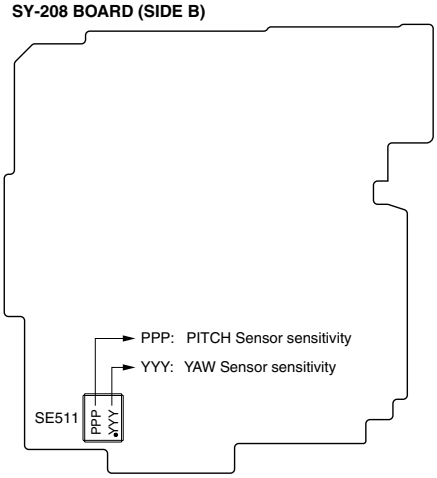
When you replace to the repairing board, the written destination data of repairing board also might be changed to original setting.
Refer to Service Manual ADJ, and perform “DESTINATION DATA WRITE”.

USB SERIAL No.

The set is shipped with a unique ID (USB Serial No.) written in it.
This ID has not been written in a new board for service, and therefore it must be entered after the board replacement.
Refer to Service Manual ADJ, and perform “USB SERIAL No. INPUT”.

Angular Velocity Sensor

When you replace to the reparing board, write down the sensitivity displayed on the angular velocity sensor (SE511).
Refer to Service Manual ADJ, and perform “Angular velocity sensor sensitivity adj”.



Note 3: The sensor sensitivity of SE511 of SY-208 board is written only repair parts.

1-5. NOTE ON REPLACING IC801 (INTERNAL MEMORY)

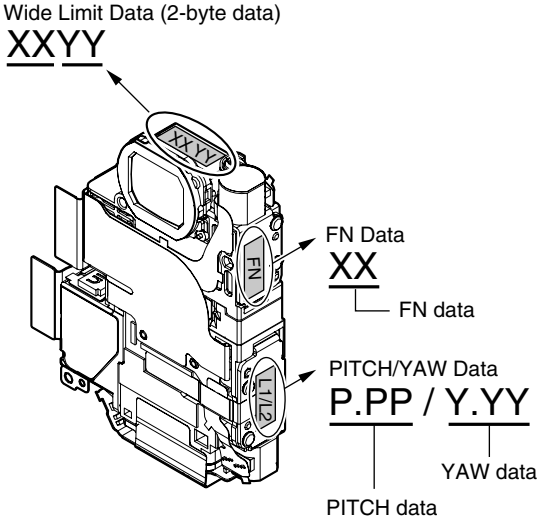
In case of replacing IC801 (internal memory) with new one, perform followings.

1. Format the internal memory with “INTERNAL MEMORY FORMAT” of the adjustment software.
2. Write the application “PMB Portable” in with “PMB”.

1-6. PRECAUTION ON REPLACING THE LENS

When replacing the lens, write down the PITCH/YAW data, FN data and wide limit data given on the data sheet of the replacement lens for service.
Refer to Service Manual ADJ, and perform “Wide Limit adj” and “Angular velocity sensor sensitivity adj”.

Wide Limit Data (2-byte data)



Note: The PITCH/YAW data, FN data and wide limit data of lens are written only repair parts.

1-7. METHOD FOR COPYING OR ERASING THE DATA IN INTERNAL MEMORY

Method for Copying the Internal Memory

Note that the camera cannot copy or transfer images directly between the internal memory and a “Memory Stick Duo”. Use the “PMB”.

Method for Formatting the Internal Memory

Formats the “Memory Stick Duo” or the internal memory. A commercially available “Memory Stick Duo” is already formatted, and can be used immediately.

1 HOME → (Manage Memory) → [Memory Tool] → OK → [Format] → OK → [OK]

Notes

Note that formatting permanently erases all data including even protected images.

Method for Exporting Images to the Internal Memory

Perform [Exporting images to medias] in the program “PMB”.
(In case of moving or copying image files from PC with Explorer, the camera cannot recognize the image files because of the image files information doesn’t reflect to the album information data folder.)

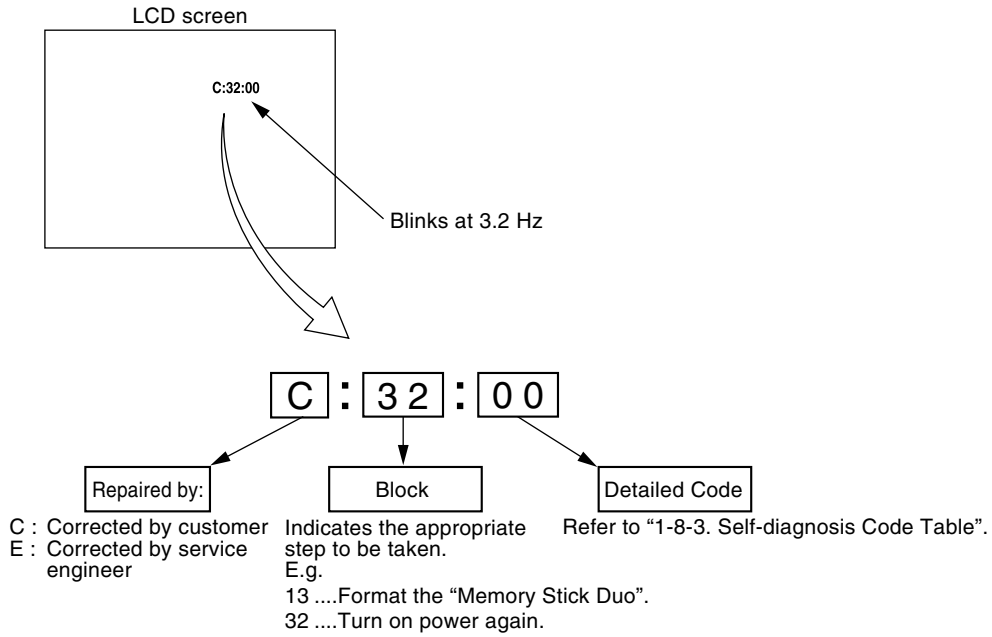
1-8. SELF-DIAGNOSIS FUNCTION

1-8-1. Self-diagnosis Function

When problems occur while the unit is operating, the self-diagnosis function starts working, and displays on the LCD screen what to do.
Details of the self-diagnosis functions are provided in the Instruction manual.

1-8-2. Self-diagnosis Display

When problems occur while the unit is operating, the LCD screen shows a 4-digit display consisting of an alphabet and numbers, which blinks at 3.2 Hz. This 5-character display indicates the “repaired by:”, “block” in which the problem occurred, and “detailed code” of the problem.



1-8-3. Self-diagnosis Code Table

Self-diagnosis Code					Symptom/State	Correction
Repaired by:	Block Function		Detailed Code			
C	1	3	0	1	The internal memory has experienced a media error.	Turn the power off and on again.
					The internal memory has experienced a format error.	Format the internal memory.
					“Memory Stick Duo” is unformatted.	Format the “Memory Stick Duo”.
					“Memory Stick Duo” is broken.	Insert a new “Memory Stick Duo”.
					“Memory Stick Duo” type error	Insert a supported “Memory Stick Duo”.
					The camera cannot read or write data on the “Memory Stick Duo”.	Turn the power off and on again, or taking out and inserting the “Memory Stick Duo” several times.
C	3	2	0	1	Trouble with hardware	Turn the power off and on again.
E	6	1	0	0	Difficult to adjust focus (Cannot initialize focus)	Retry turn the power on by the power switch. If it does not recover, check the focus reset sensor of lens block (pin ⑳ of CN501 on the SY-208 board). If it is OK, check the focus motor drive IC (IC503 on the SY-208 board).
E	6	1	1	0	Zoom operations fault (Cannot initialize zoom lens.)	Retry turn the power on by the power switch. Check the zoom reset sensor of lens block (pin ㉘ of CN501 on the SY-208 board), if zooming is performed when the zoom button is operated. If it is OK, check the zoom motor drive IC (IC503 on the SY-208 board).
E	6	2	0	2	Abnormality of IC for steadyshot.	Check or replacement of the IC for steadyshot (IC503 on the SY-208 board).
E	6	2	1	0	Lens initializing failure.	Check or replacement of the IC for steadyshot (IC503 on the SY-208 board).
E	6	2	1	1	Lens overheating (PITCH).	Check the HALL element (PITCH) of optical image stabilizer (pin ⑩, ⑪ of CN501 on the SY-208 board). If it is OK, check PITCH/YAW angular velocity sensor (SE511 on the SY-208 board) peripheral circuits.
E	6	2	1	2	Lens overheating (YAW).	Check the HALL element (YAW) of optical image stabilizer (pin ⑦, ⑫ of CN501 on the SY-208 board). If it is OK, check PITCH/YAW angular velocity sensor (SE511 on the SY-208 board) peripheral circuits.
E	6	2	2	0	Abnormality of thermistor.	Check the OIS temp sensor of optical image stabilizer (pin ⑱ of CN501 on the SY-208 board).
E	9	1	0	1	Abnormality when flash is being charged.	Checking of flash unit or replacement of flash unit. (Note)
E	9	2	0	0	Non-standard battery is used.	Use the compatible battery only.

Note: After repair, be sure to perform “1-9. PROCESS AFTER FIXING FLASH ERROR”.

1-9. PROCESS AFTER FIXING FLASH ERROR

When “FLASH error” (Self-diagnosis Code E : 91 : 01) occurs, to prevent any abnormal situation caused by high voltage, setting of the flash is changed automatically to disabling charge and flash setting.
After fixing, this setting needs to be deactivated. Flash error code can be initialized by the operations on the HOME screen.

Method for Initializing the Flash Error Code

Initializes the setting to the default setting.
Even if you execute this function, the images are retained.

1 HOME → (Settings) → [Main Settings] → OK → [Initialize] → OK → [OK]

Notes

- The Password Lock is not released even if you initialize the settings.
- Be sure not to turn off the camera while initializing.

1. SERVICE NOTE

ENGLISH JAPANESE

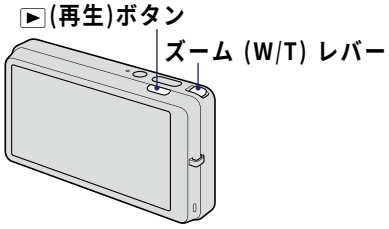
1-1. 内蔵メモリーの注意事項について

“ メモリースティック デュオ ”を本機に挿入しているときは，“ メモリースティック デュオ ”に画像が記録されます。
本機では，内蔵メモリーと“ メモリースティック デュオ ”間での画像コピーや移動はできません。「PMB」をお使いください。

1-2. パスワードロックについて

パスワードロックを行うと内蔵メモリーの画像を再生できなくなります。
パスワードロックされたセットが入荷した場合で，内蔵メモリー内のデータを読み出す必要がある場合は，パスワードロック解除を行ってください。

パスワードロックの解除方法について
1. 電源を切った状態で，ズーム (W/T) レバーをW側に動かしたまま，▶ (再生ボタン)を押す。
2. 電源が入りパスワード解除画面が表示される → [実行]
3. パスワード解除番号「7669」を入力する →[実行] → [実行]



1-3. PMB Portableについて

・本機の内蔵メモリー内にはPMB Portableが書き込まれています。
・補修用SY-208基板は，PMB Portableが書き込まれた状態で供給されます。
・内蔵メモリーを交換した場合は，PMB Portableを書き込む必要があります。
　書き込み方法はPMBガイドを参照してください。

1-4. SY-208基板交換時の注意

Note1：SY-208基板交換の際は，基板交換前に内蔵メモリーのデータを消去して下さい。
Note2：SY-208基板交換の際は，基板交換後に内蔵メモリーのフォーマットおよび初期化を実行して下さい。

仕向けデータ

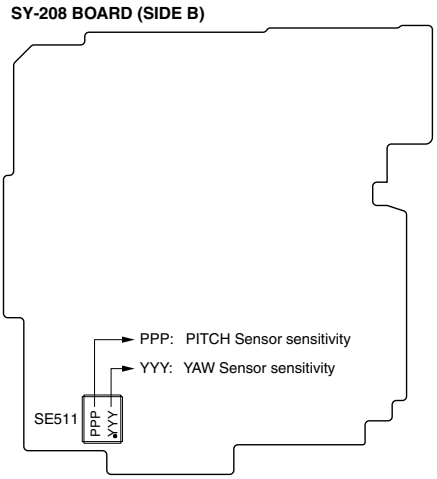
補修用基板と交換する時，補修用基板に書かれている仕向けデータは元の設定と違っている場合があります。
ADJ編を参照して，「DESTINATION DATA WRITE」を行ってください。

USBシリアルNo.

セットは，1台毎に異なる固有のID（USB Serial No.）を書き込んだ後，出荷されています。
新品の補修用基板には，このIDが書き込まれていないので，基板交換後にIDを入力する必要があります。
ADJ編を参照して，「USB SERIAL No. INPUT」を行ってください。

角速度センサ

補修用基板と交換する時，角速度センサ（SE511）の感度表示を書き留めてください。
ADJ編を参照して，「角速度センサ感度調整」を行ってください。



Note3：SY-208基板のSE511感度表示は補修用基板にしか記載されておりません。

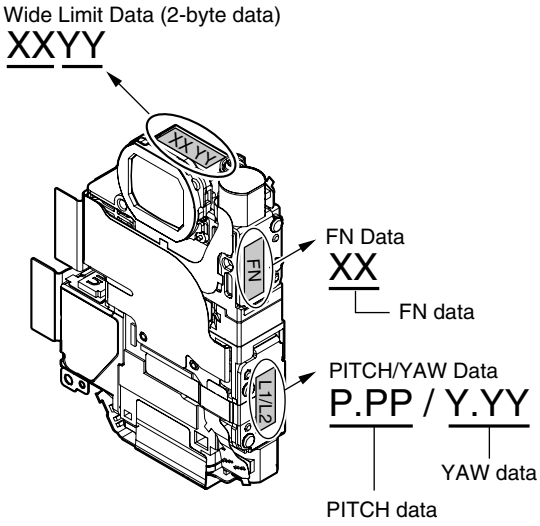
1-5. IC801(内蔵メモリー)交換時の注意

IC801(内蔵メモリー)を交換した際は，下記の作業を行ってください。

1. 調整ソフトの「INTERNAL MEMORY FORMAT」を使用して，内蔵メモリーのフォーマットを実行する。
2. “ PMB ”を使用して，“ PMB Portable ”を書き込む。

1-6. レンズ交換時の注意

レンズ交換時，補修用レンズ添付データシート掲載のPITCH/YAWデータ，FNデータおよびW端調整データを書き留めてください。
ADJ編を参照して，「W端調整」，「角速度センサ感度調整」を行ってください。



Note：PITCH/YAWデータ，FNデータおよびW端調整データは，補修用部品にのみ記載されています。

1-7. 内蔵メモリ ーのデータコピーおよび消去方法

内蔵メモリーのコピー方法

本機では，内蔵メモリーと“ メモリースティック デュオ ”間での画像コピーや移動はできません。「PMB」をお使いください。

内蔵メモリーのフォーマット方法

“ メモリースティック デュオ ”または内蔵メモリーをフォーマット（初期化）します。市販の“ メモリースティック デュオ ”はフォーマット済みのため，フォーマットの必要はありません。

1 HOME → （メモリー管理）→ [メモリーツール] → OK → [フォーマット] → OK → [実行]

ご注意

フォーマットすると，プロテクトしてある画像も含めて，すべてのデータが消去され，元に戻せません。

内蔵メモリーへデータを書き戻す方法

“ PMB ”から[メディアへ書き出し]を行ってください。
（エクスプローラーで画像ファイルを PC から移動しても, アルバム情報のデータフォルダに反映されない為, 画像ファイルを認識しません。）

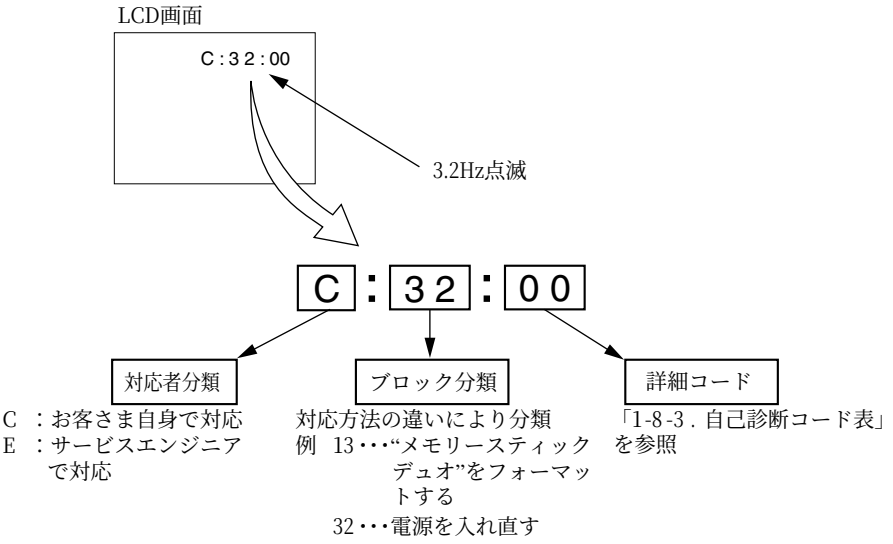
1-8. 自己診断機能

1-8-1. 自己診断機能について

本機の動作に不具合が生じたとき，自己診断機能が働き，ＬＣＤ画面に，どう処置したらよいか判断できる表示を行います。自己診断機能については取扱説明書にも掲載されています。

1-8-2. 自己診断表示

本機の動作に不具合が生じたとき，LCD画面にアルファベットと4桁の数字が表示され，3.2Hzで点滅します。この5文字の表示によって対応者分類および不具合の生じたブロックの分類，不具合の詳細コードを示します。



1-8-3. 自己診断コード表

自己診断コード			症状／状態	対応／方法
対応者	ブロック機能	詳細コード		
C	1 3	0 1	内蔵メモリーに メディアエラー があった。	電源を入れ直す。
			内蔵メモリ ーにフォーマットエラーがあった。	内蔵メモリーをフォーマットする。
			フォーマットしていない“ メモリースティック デュオ ”を入れた。	“ メモリースティック デュオ ”をフォーマットする。
			“ メモリースティック デュオ ”が壊れている。	新しい“ メモリースティック デュオ ”に交換する。
			“ メモリースティック デュオ ”のタイプエラーを検出した。	規格内の“ メモリースティック デュオ ”を挿入する。
			“ メモリースティック デュオ ”が読み／書きできない。	電源の入れ直し，または“ メモリースティック デュオ ”の挿し／外しを数回試す。
C	3 2	0 1	ハードウェアトラブルを検出した。	電源を入れ直す。
E	6 1	0 0	フォーカスが合いにくい。 （フォーカスの初期化ができない）	操作スイッチの電源を入れ直す。 復帰しない場合はレンズブロックのフォーカスリセットセンサ（SY-208基板CN501 ⑳ピン）を点検する。異常なければフォーカスモータ駆動IC（SY-208基板IC503）を点検する。
E	6 1	1 0	ズーム動作の異常。 （ズームレンズの初期化ができない）	操作スイッチの電源を入れ直す。 ズームボタンを操作したときにズーム動作をすればレンズブロックのズームリセットセンサ（SY-208基板CN501 ㉘ピン）を点検する。異常なければズームモータ駆動IC（SY-208基板IC503）を点検する。
E	6 2	0 2	手振れ補正用ICの異常。	手振れ補正用IC（SY-208基板IC503）を点検または交換する。
E	6 2	1 0	手振れ補正用ICの異常。 （レンズ初期化異常）	手振れ補正用IC（SY-208基板IC503）を点検または交換する。
E	6 2	1 1	レンズオーバーヒート（PITCH）	光学手振れ補正ブロックのホール素子（PITCH）（SY-208基板CN501 ⑩，⑪ピン）を点検する。異常なければPITCH/YAW角速度センサ（SY-208基板SE511）周辺の回路を点検する。
E	6 2	1 2	レンズオーバーヒート（YAW）	光学手振れ補正ブロックのホール素子（YAW）（SY-208基板CN501 ⑦，⑫ピン）を点検する。異常なければPITCH/YAW角速度センサ（SY-208基板SE511）周辺の回路を点検する。
E	6 2	2 0	サーミスタの異常。	光学手振れ補正ブロックのサーミスタ（SY-208基板CN501 ⑱ピン）を点検する。
E	9 1	0 1	フラッシュの充電異常。	フラッシュユニットを点検または交換する。（Note）
E	9 2	0 0	規定外の充電池が使用された。	規定の充電池を使用する。

Note：交換後は，必ず「1-9. フラッシュエラー発生時の対処法」を行って下さい。

1-9. フラッシュエラー発生時の対処法

本機はフラッシュエラー（自己診断コードE：91：01）が発生した場合，高電圧による異常を防止するために自動的にフラッシュ充電および発光禁止の設定になります。
フラッシュエラー発生後はエラーの解除を行う必要があります。エラーの解除はホーム画面から初期化操作を実行することにより行います。

フラッシュエラーの解除方法

お買い上げ時の設定に戻します。
［設定リセット］を実行しても，画像は削除されません。

1 HOME → （設定）→ [本体設定] → OK → [設定リセット] → OK → [実行]

ご注意

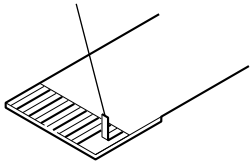
- **設定リセットを実行しても，[パスワードロック]は解除されません。**
- **設定リセット中は電源が切れないようにご注意ください。**

2. DISASSEMBLY

NOTE FOR REPAIR

- Make sure that the flat cable and flexible board are not cracked of bent at the terminal. Do not insert the cable insufficiently nor crookedly.
- When remove a connector, don't pull at wire of connector. It is possible that a wire is snapped.
- When installing a connector, don't press down at wire of connector. It is possible that a wire is snapped.
- Do not apply excessive load to the gilded flexible board.

Cut and remove the part of gilt which comes off at the point. (Be careful or some pieces of gilt may be left inside)

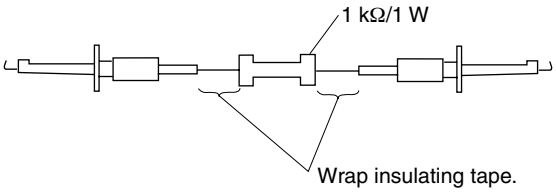


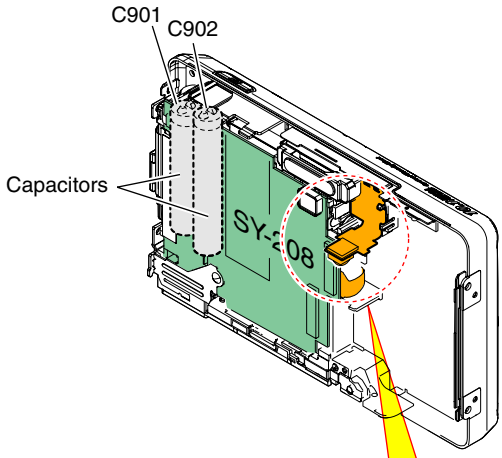
DISCHARGING OF THE ST-203 FLEXIBLE BOARD'S CHARGING CAPACITOR (C901, C902)

The charging capacitor (C901, C902) of the ST-203 flexible board is charged up to the maximum 315 V potential.
There is a danger of electric shock by this high voltage when the capacitor is handled by hand. The electric shock is caused by the charged voltage which is kept without discharging when the main power of the unit is simply turned off. Therefore, the remaining voltage must be discharged as described below.

Preparing the Short Jig

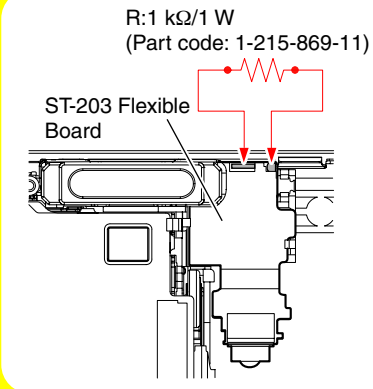
To preparing the short jig, a small clip is attached to each end of a resistor of 1 kΩ /1 W (1-215-869-11).
Wrap insulating tape fully around the leads of the resistor to prevent electrical shock.



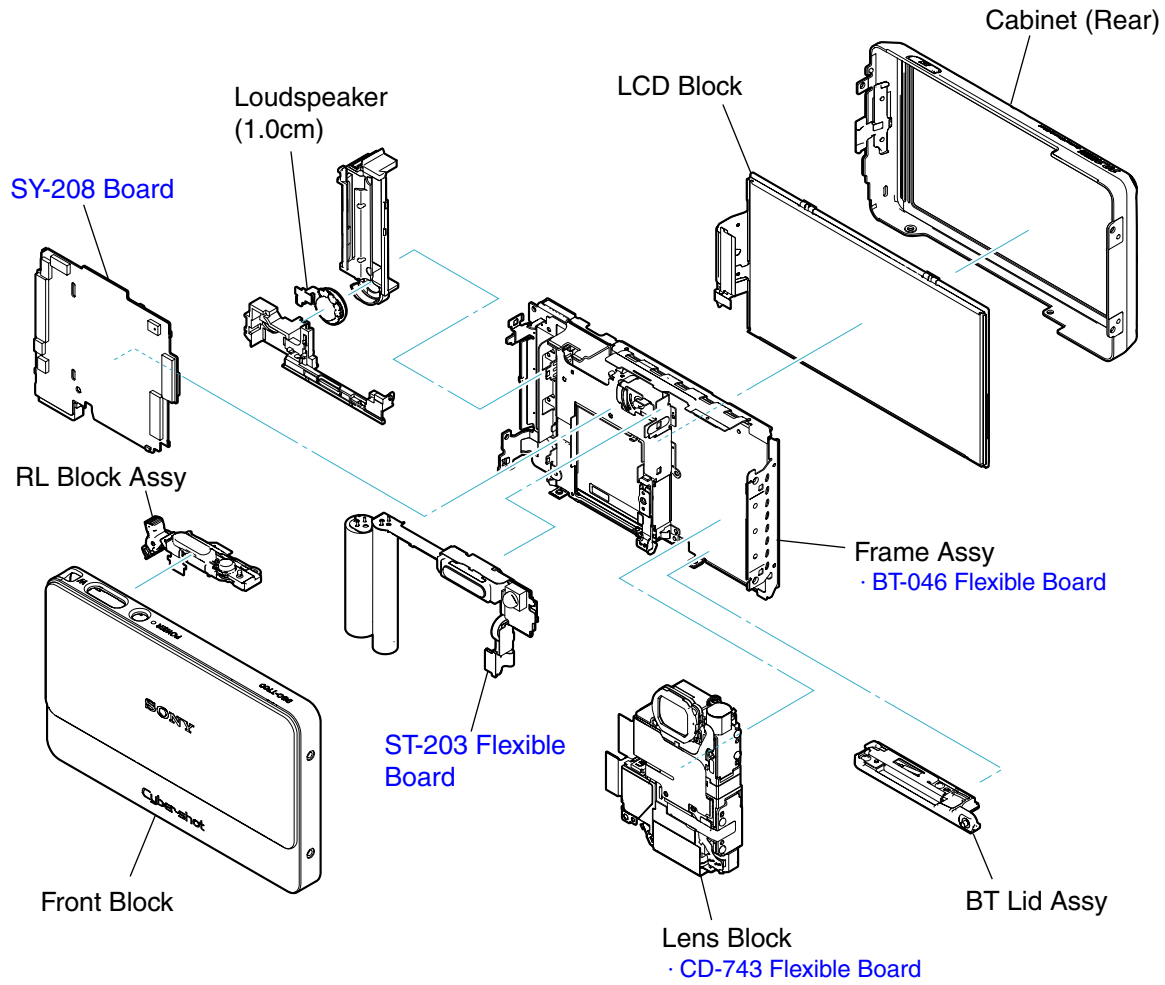


Note: High-voltage cautions

Discharging the Capacitor
Short-circuit between the two points with the short jig about 10 seconds.
To avoid the spark with the metal plate, wrap the short jig with the insulation tape.



2-1. IDENTIFYING PARTS



- DISASSEMBLY FLOW -

2-2-1. OVERALL SECTION
- Front Block
- Lens Block

2-2-2. MAIN SECTION
- SY-208 Board
- ST-203 Flexible Board
- Rear Section

2-2-3. REAR SECTION
- LCD Block

2-2. DISASSEMBLY

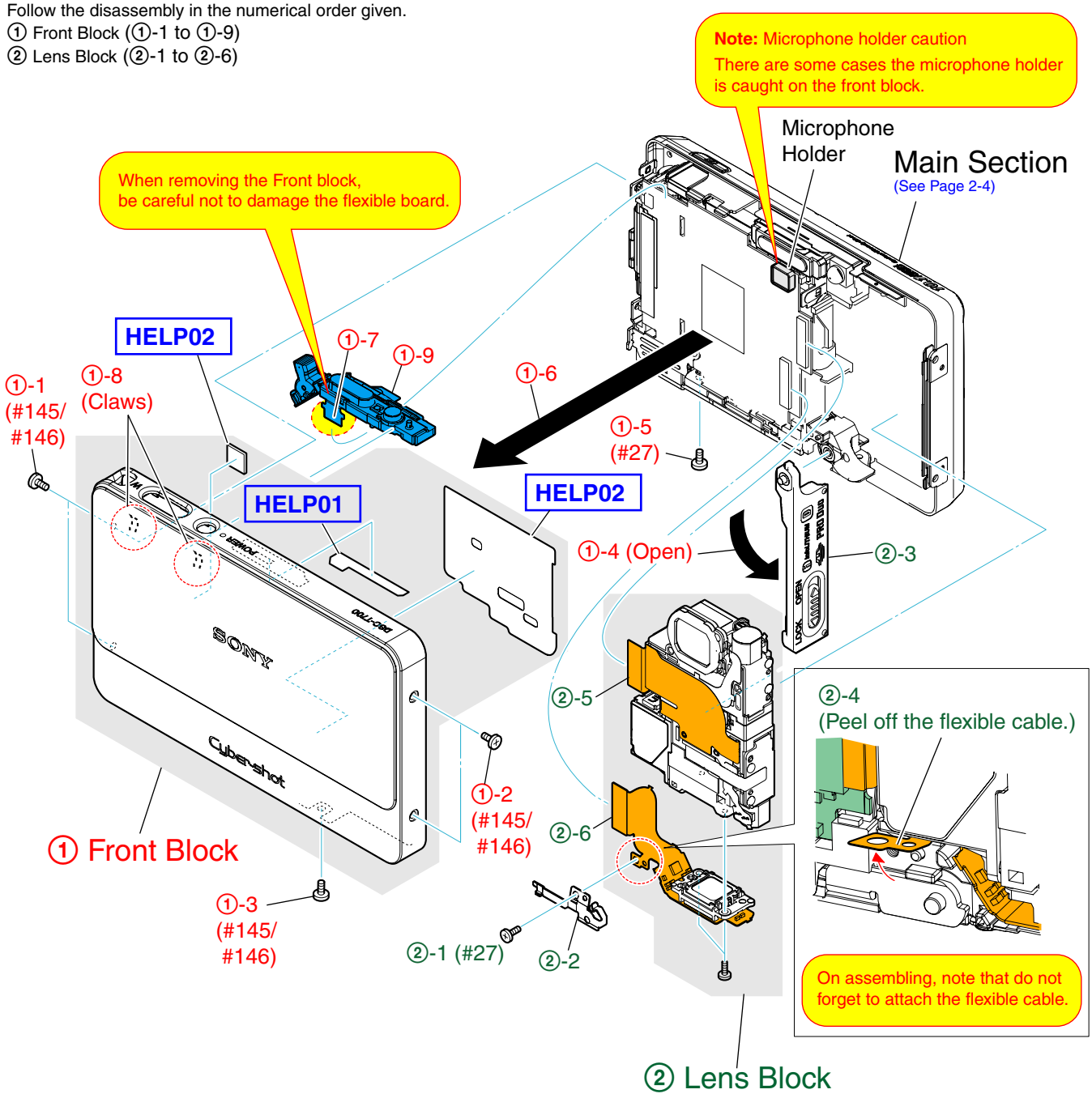
EXPLODED VIEW | HARDWARE LIST

2-2-1. OVERALL SECTION

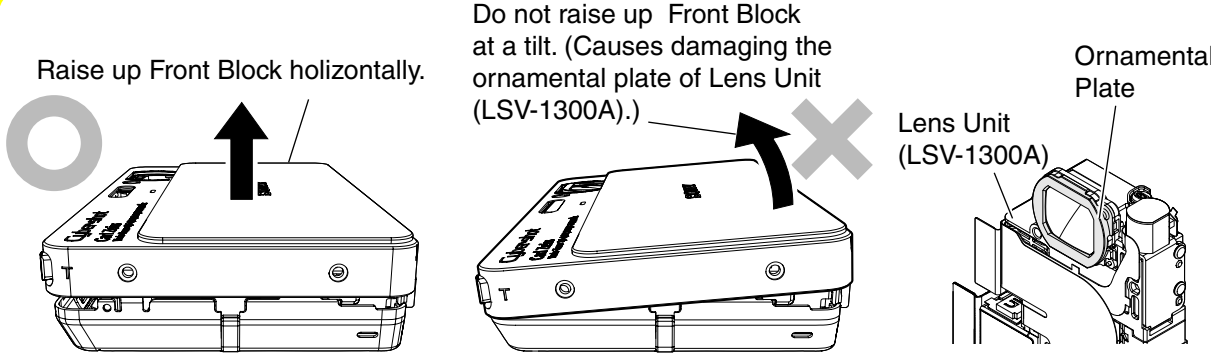
Follow the disassembly in the numerical order given.

① Front Block (①-1 to ①-9)

② Lens Block (②-1 to ②-6)



Note: Front Block caution

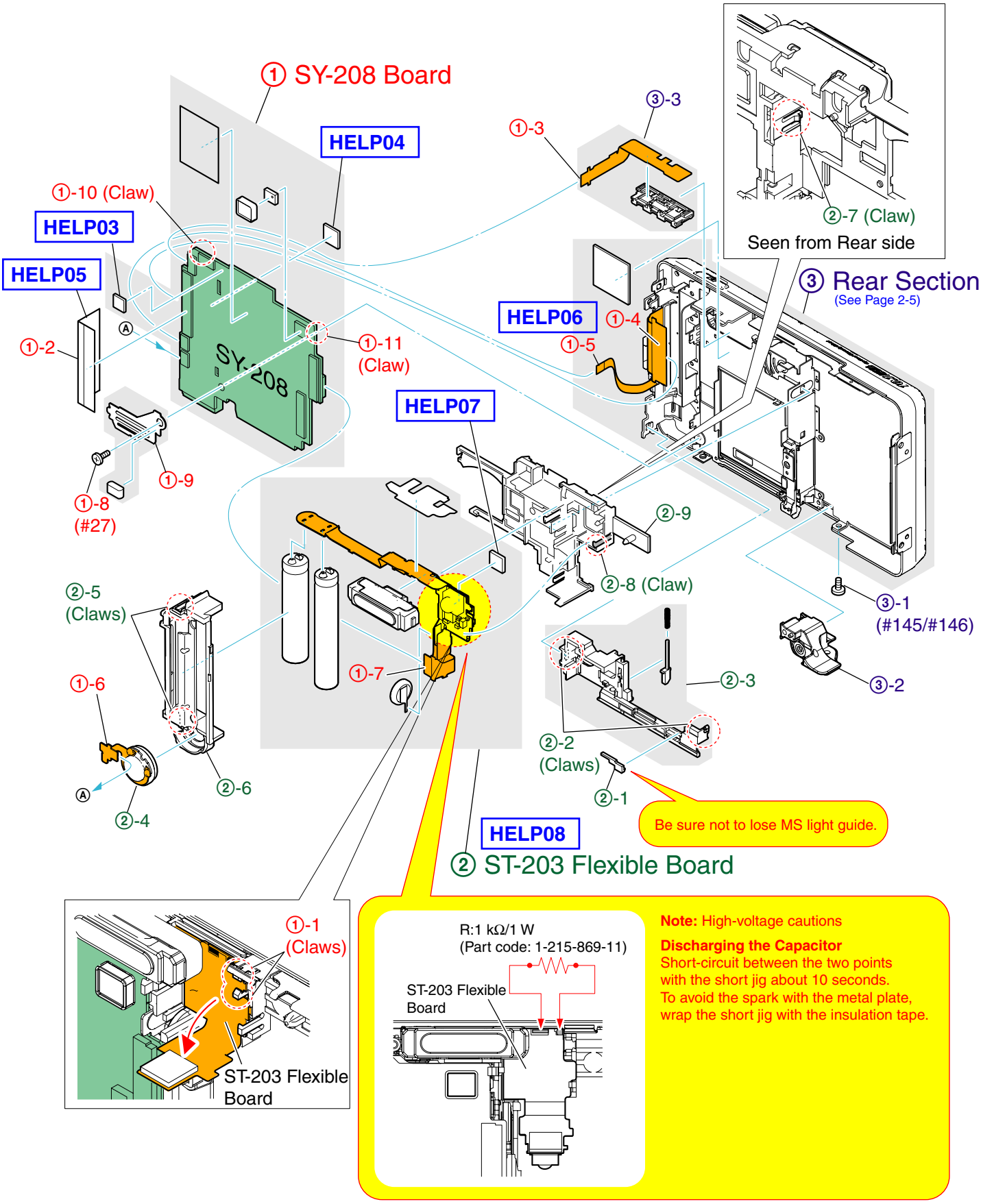

Raise up Front Block holizontally.
Do not raise up Front Block at a tilt. (Causes damaging the ornamental plate of Lens Unit (LSV-1300A).)
Ornamental Plate
Lens Unit (LSV-1300A)

2-2-2. MAIN SECTION

Follow the disassembly in the numerical order given.

① SY-208 Board (①-1 to ①-11)
② ST-203 Flexible Board (②-1 to ②-9)
③ Rear Section (③-1 to ③-3)

EXPLODED VIEW HARDWARE LIST

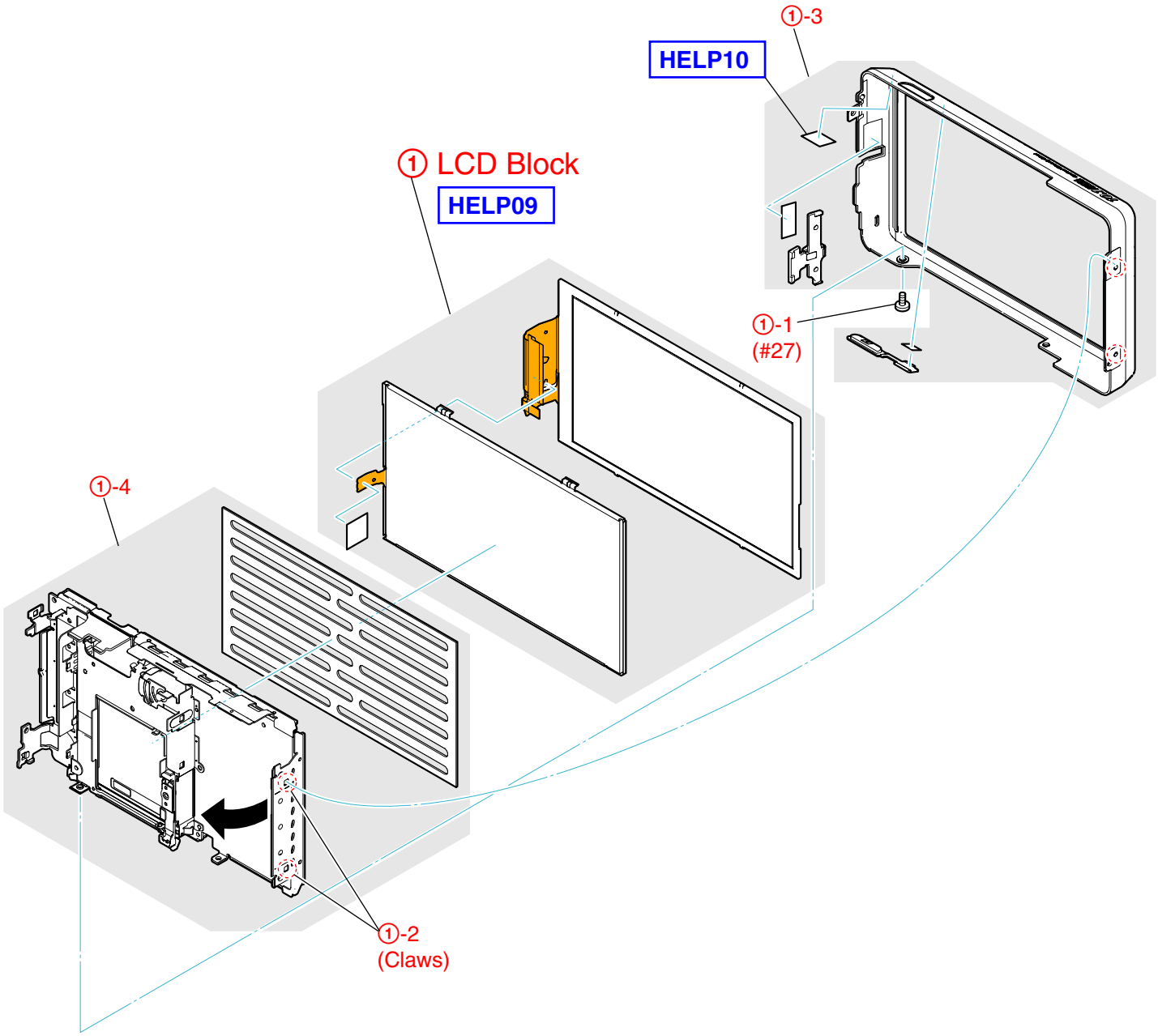


2-2-3. REAR SECTION

Follow the disassembly in the numerical order given.

① LCD Block (①-1 to ①-4)

EXPLODED VIEW HARDWARE LIST

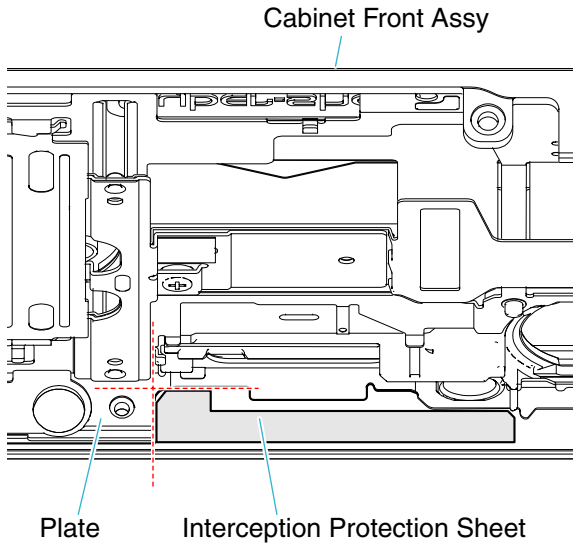


HELP

Sheet attachment positions and procedures of processing the flexible boards/harnesses are shown.

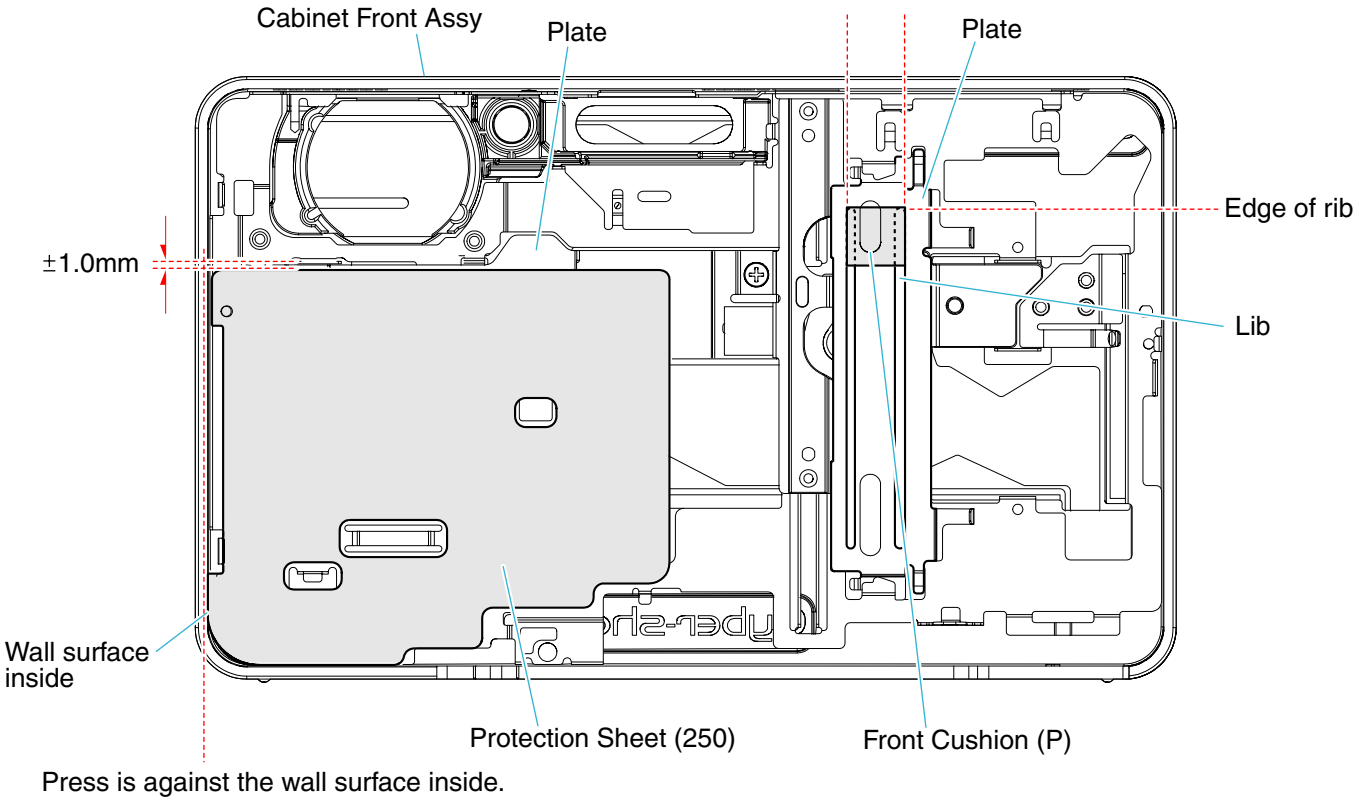
HELP01

INTERCEPTION PROTECTION SHEET PUTTING POSITION



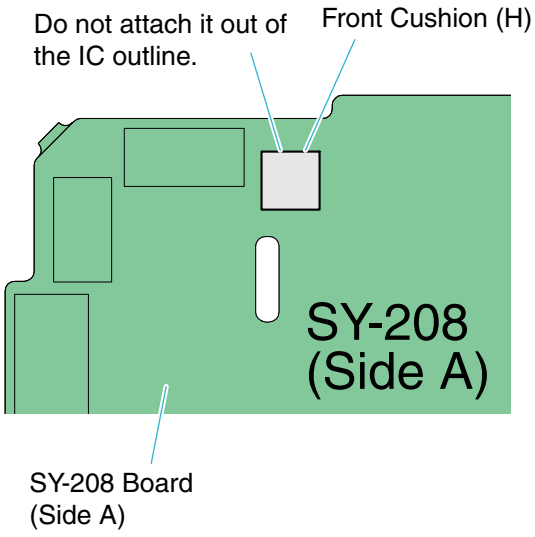
HELP02

PROTECTION SHEET (250), FRONT CUSHION (P) PUTTING POSITION



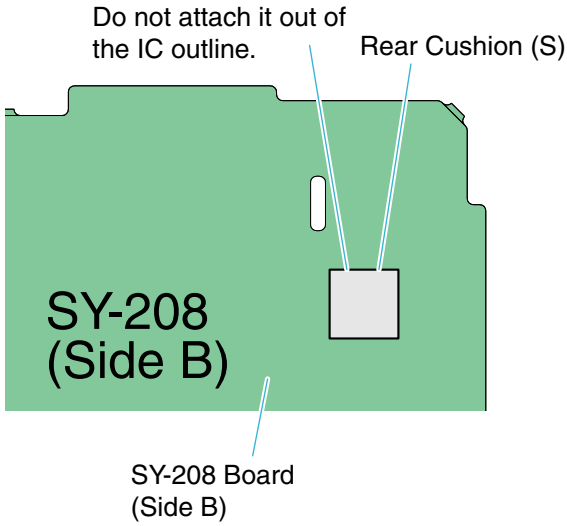
HELP03

FRONT CUSHION (H) PUTTING POSITION



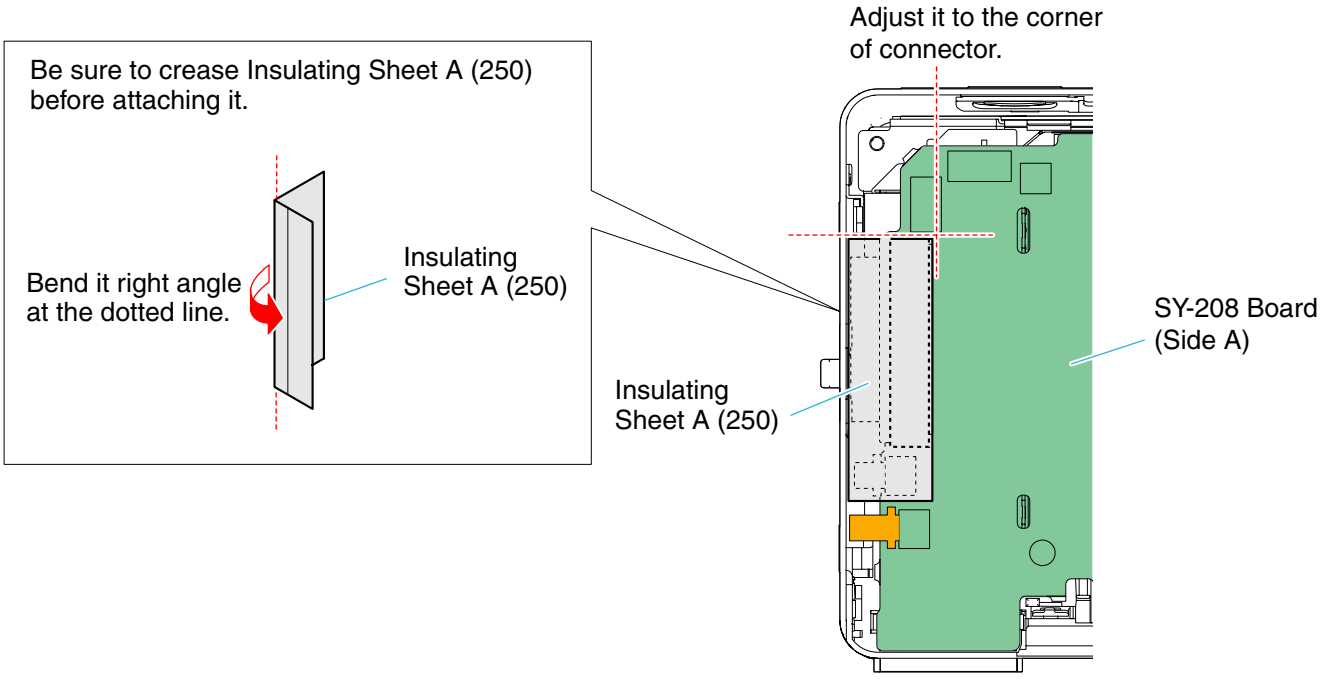
HELP04

REAR CUSHION (S) PUTTING POSITION



HELP05

INSULATING SHEET A (250) PUTTING POSITION


Be sure to crease Insulating Sheet A (250) before attaching it.
Bend it right angle at the dotted line.
Insulating Sheet A (250)
Adjust it to the corner of connector.
SY-208 Board (Side A)
Insulating Sheet A (250)

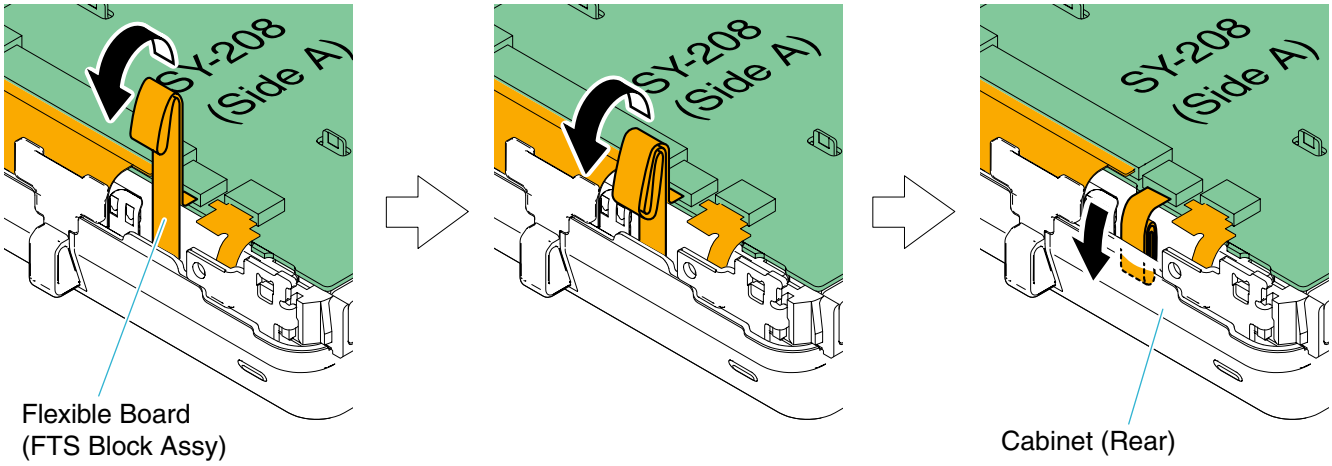
HELP06

THE METHOD OF ATTACHMENT OF FTS BLOCK ASSY

Bend the flexible board.

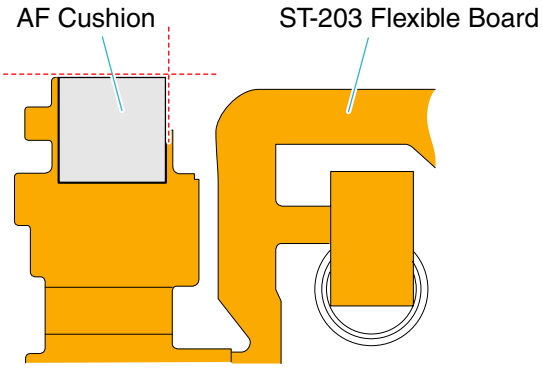
Bend it once again.

Put it away into the inside of Cabinet (Rear).



HELP07

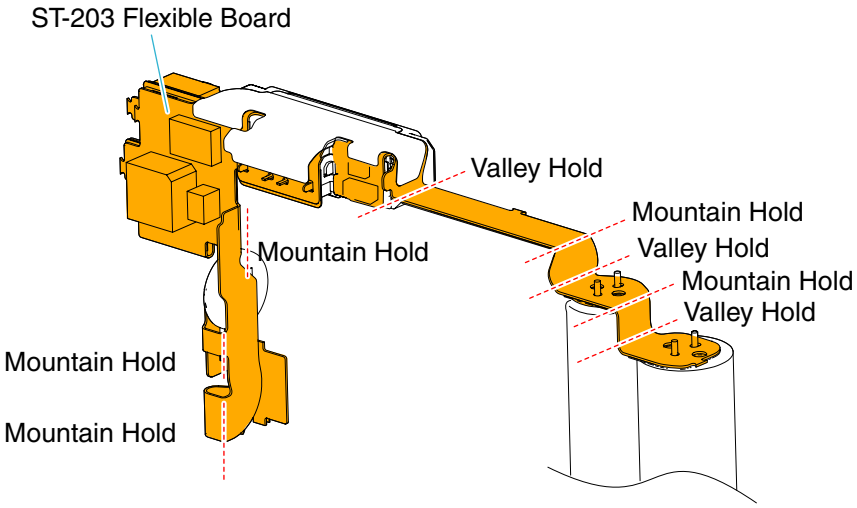
AF CUSHION PUTTING POSITION



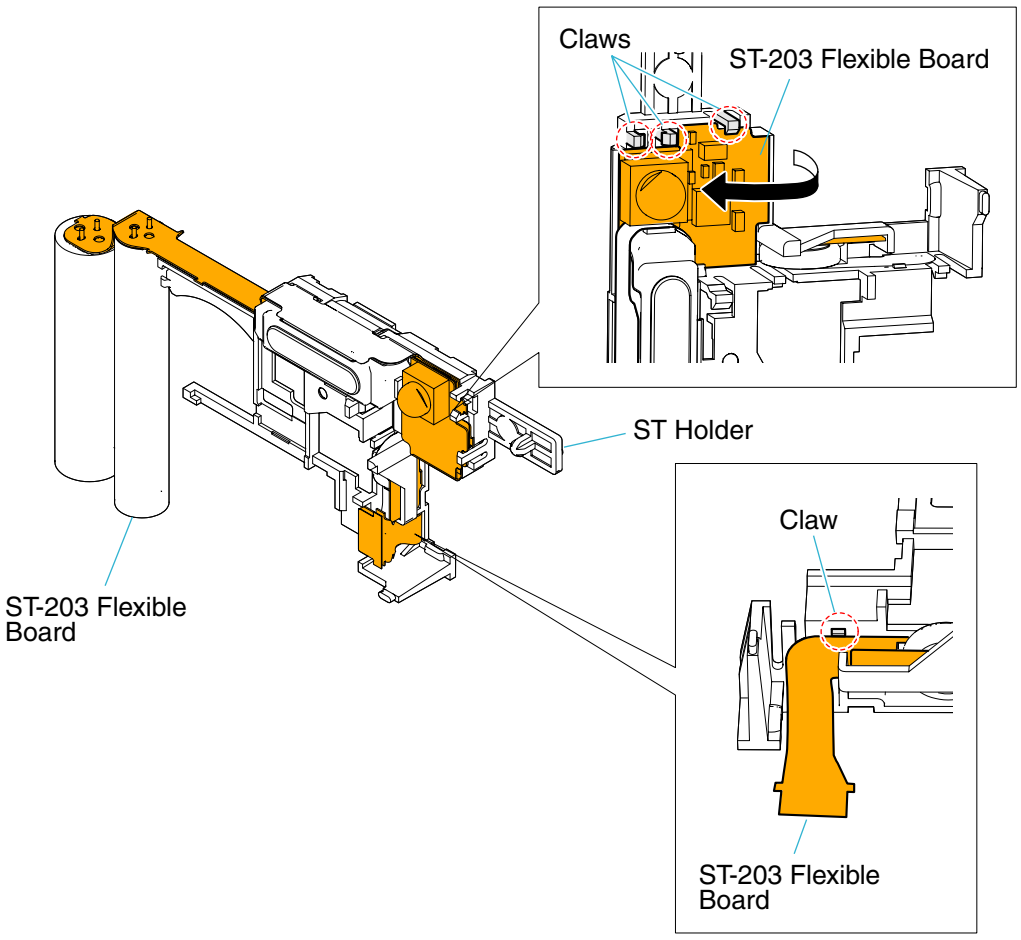
HELP08

THE METHOD OF ATTACHMENT OF ST-203 FLEXIBLE BOARD

① Fold dotted line parts of ST-203 flexible board as shown in figure.

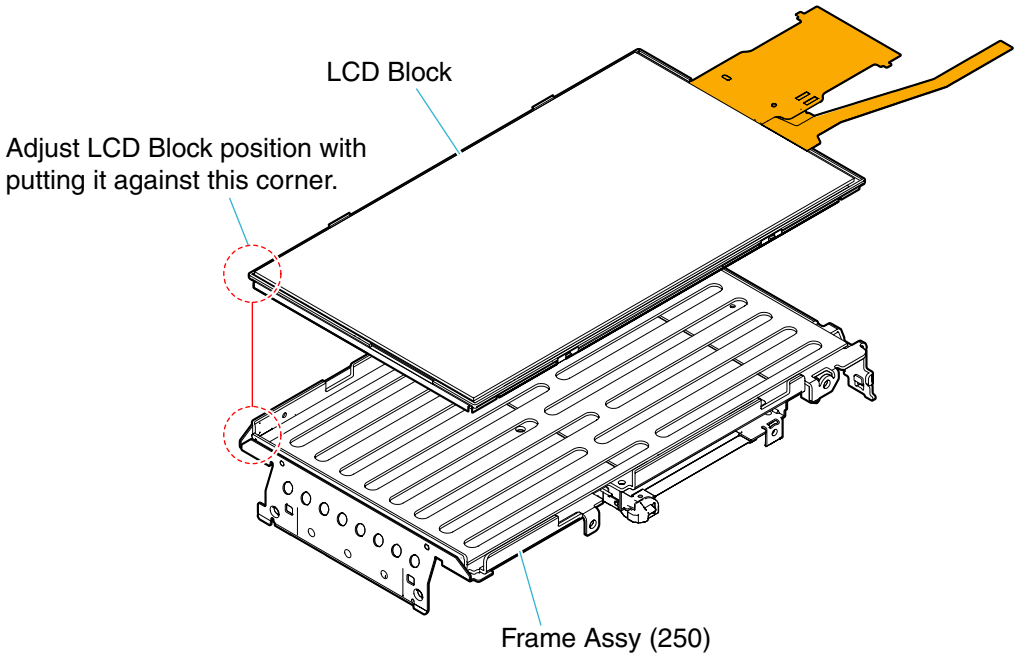


② Install ST-203 Flexible board to ST holder as shown in figure.



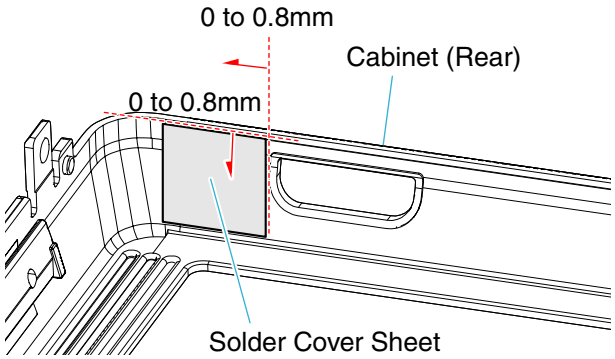
HELP09

INSTALLATION CAUTIONS OF THE LCD BLOCK



HELP10

SOLDER COVER SHEET PUTTING POSITION



3. BLOCK DIAGRAMS

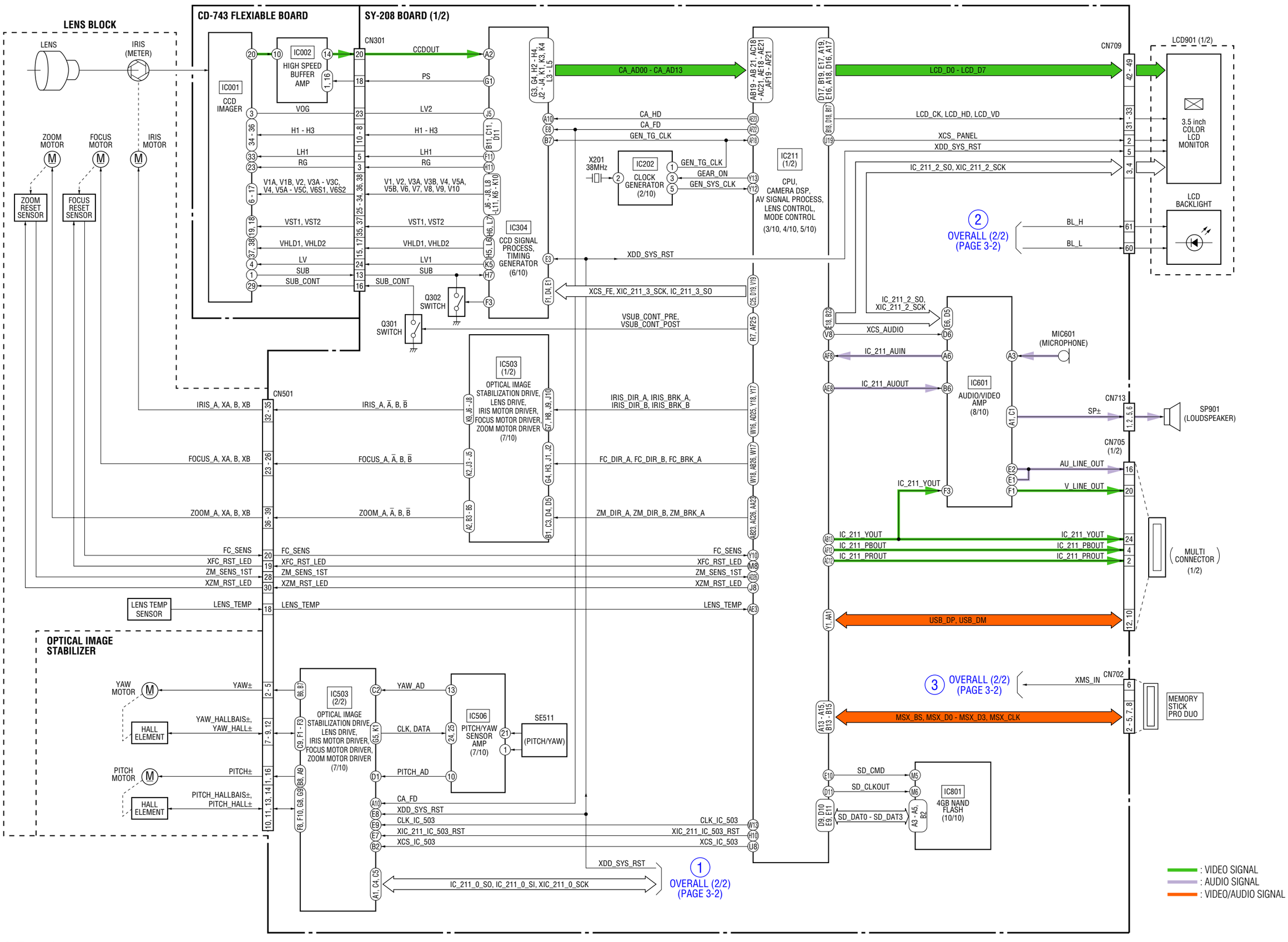
Link

OVERALL BLOCK DIAGRAM (1/2)	POWER BLOCK DIAGRAM (1/2)
OVERALL BLOCK DIAGRAM (2/2)	POWER BLOCK DIAGRAM (2/2)

3. BLOCK DIAGRAMS

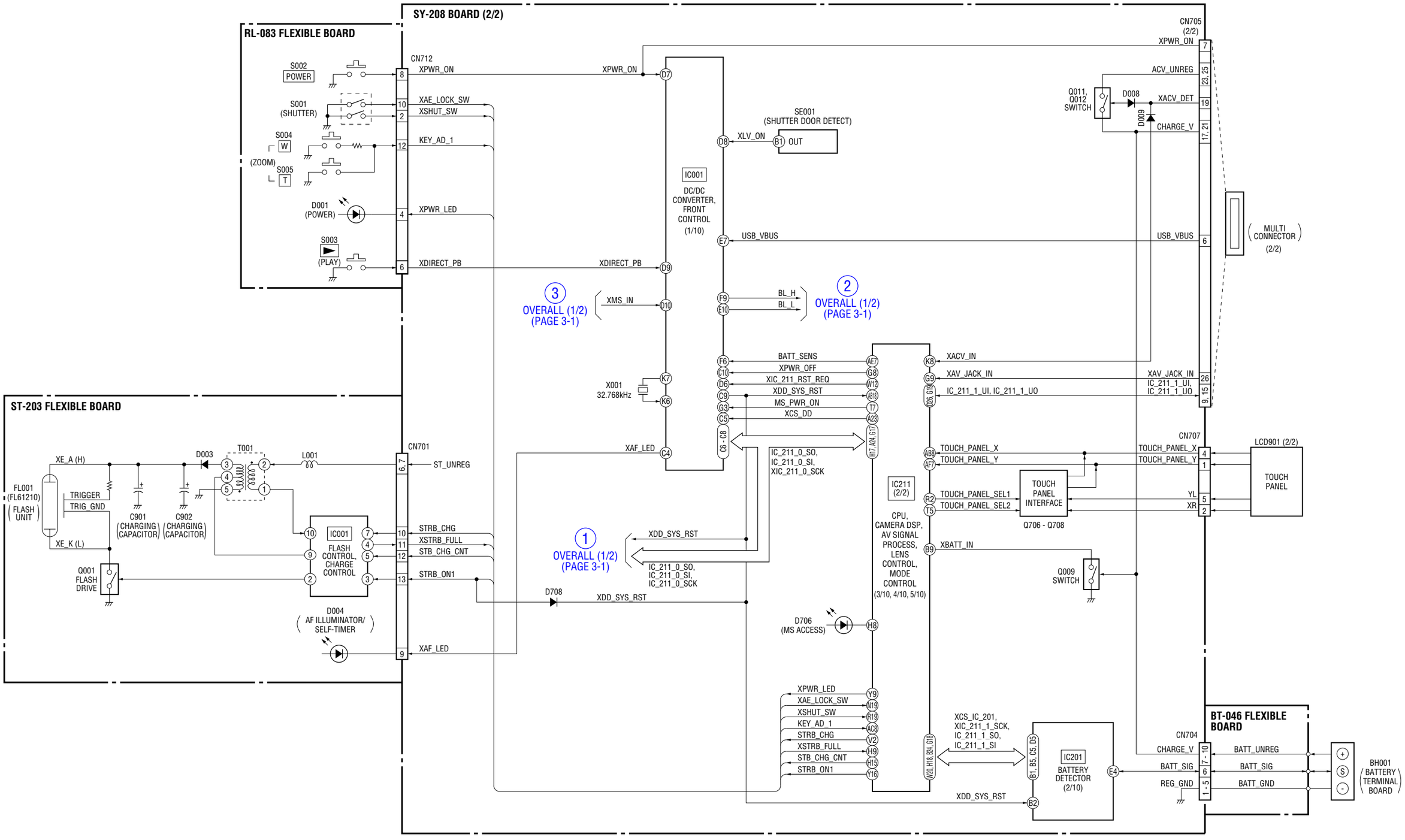
3-1. OVERALL BLOCK DIAGRAM (1/2)

( ) : Number in parenthesis ( ) indicates the division number of schematic diagram where the component is located.



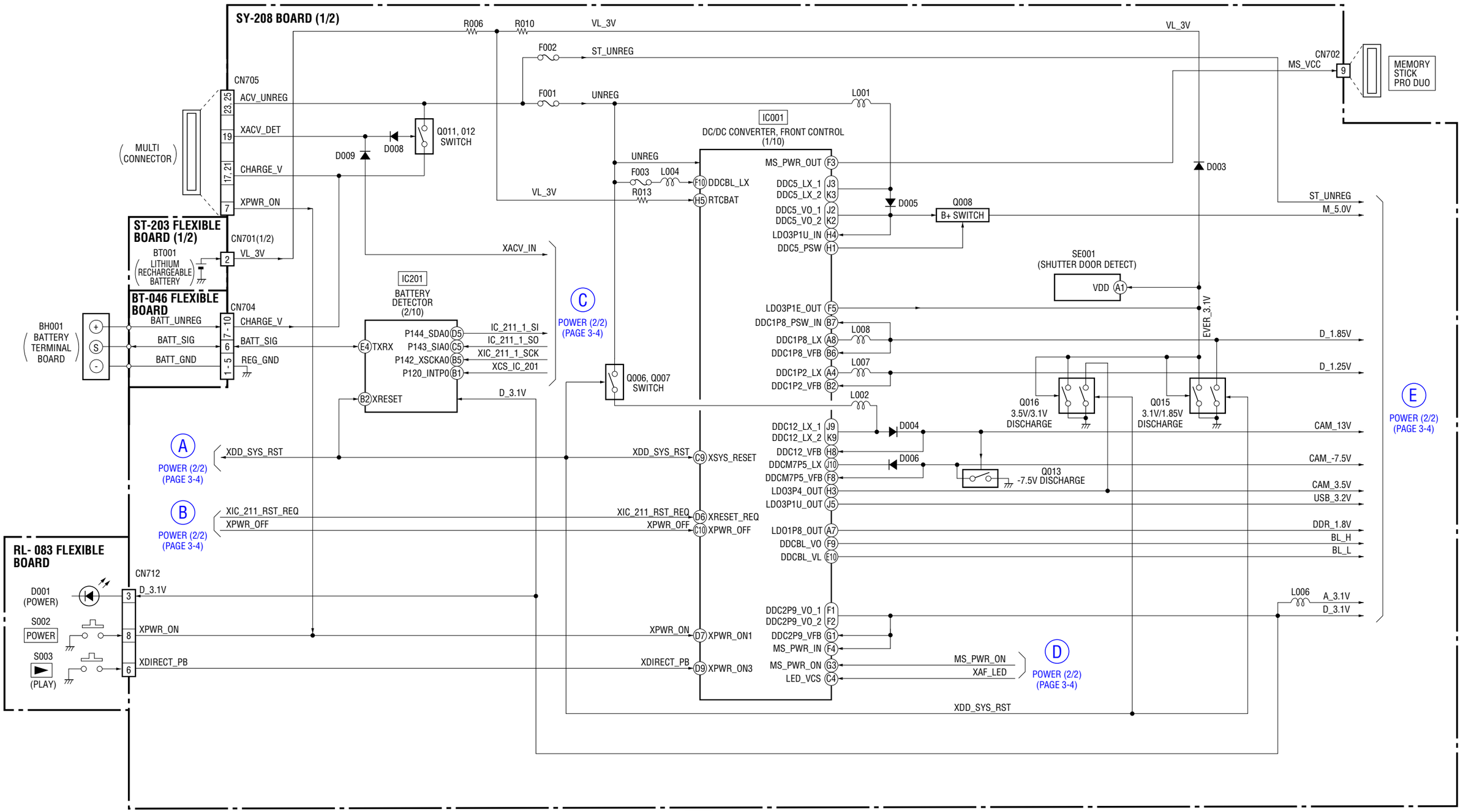
3-2. OVERALL BLOCK DIAGRAM (2/2)

( ) : Number in parenthesis ( ) indicates the division number of schematic diagram where the component is located.



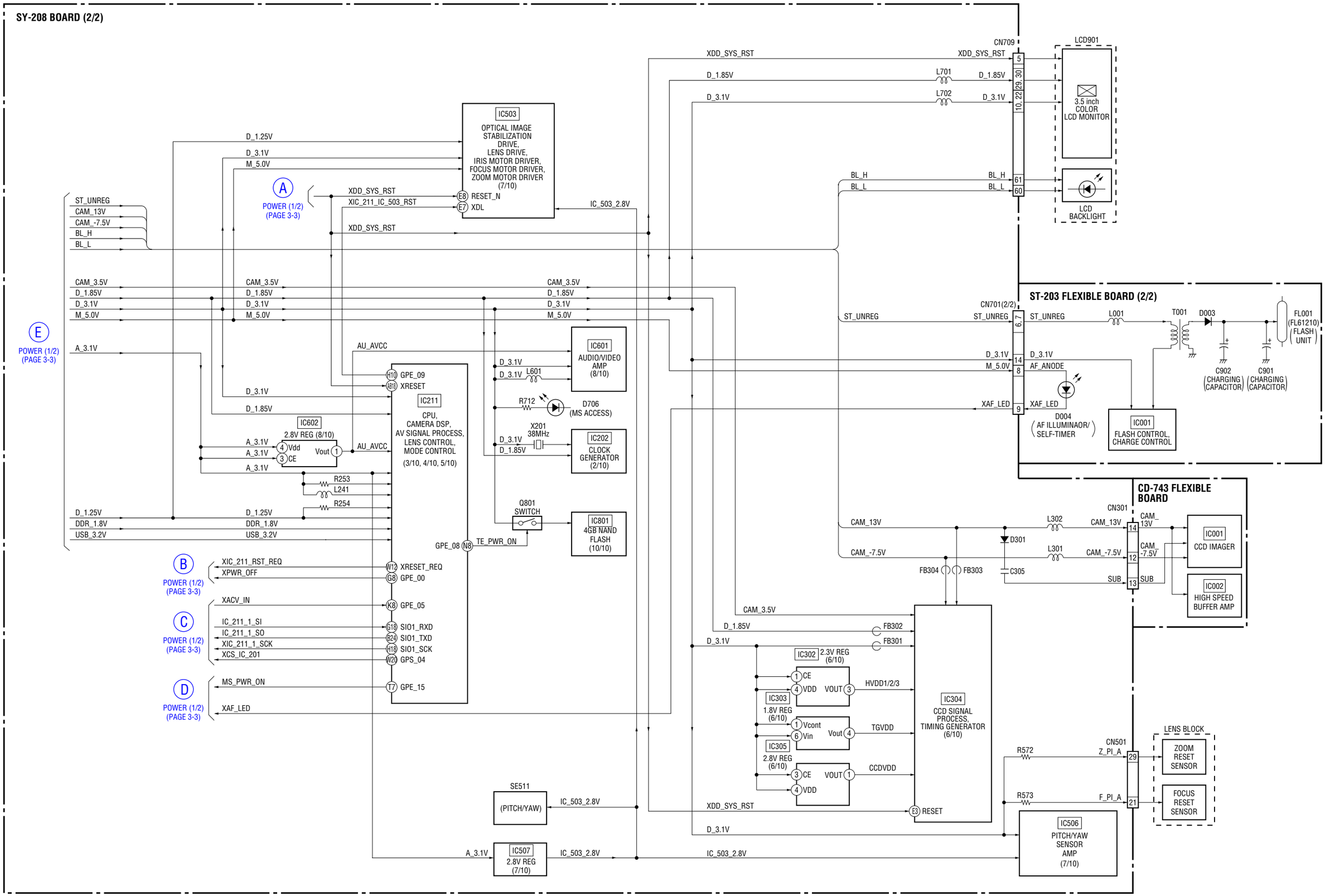
3-3. POWER BLOCK DIAGRAM (1/2)

( ) : Number in parenthesis ( ) indicates the division number of schematic diagram where the component is located.



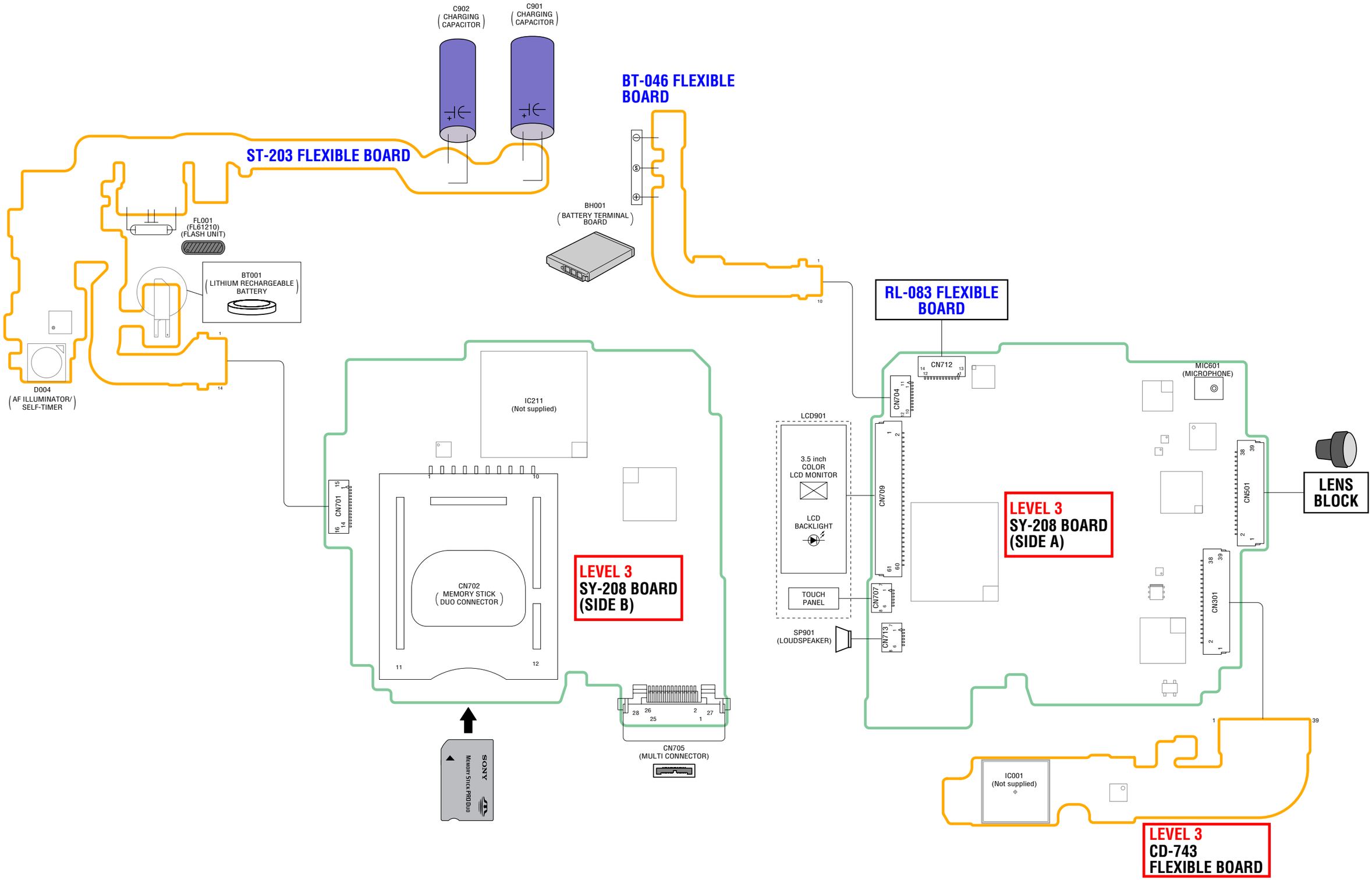
3-4. POWER BLOCK DIAGRAM (2/2)

( ) : Number in parenthesis ( ) indicates the division number of schematic diagram where the component is located.



4. PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

4-1. FRAME SCHEMATIC DIAGRAM



4-2. SCHEMATIC DIAGRAMS

Link

- ST-203 FLEXIBLE BOARD (FLASH DRIVE)
- RL-083 FLEXIBLE BOARD (CONTROL SWITCH)
- BT-046 FLEXIBLE BOARD (BATTERY TERMINAL)
- COMMON NOTE FOR SCHEMATIC DIAGRAMS

4-2. SCHEMATIC DIAGRAMS (ENGLISH)

THIS NOTE IS COMMON FOR SCHEMATIC DIAGRAMS
(In addition to this, the necessary note is printed in each block)

(For schematic diagrams)

- All capacitors are in μF unless otherwise noted. pF : μμF. 50 V or less are not indicated except for electrolytics and tantalums.
- Chip resistors are 1/10 W unless otherwise noted. kΩ=1000 Ω, MΩ=1000 kΩ.
- Caution when replacing chip parts.
  New parts must be attached after removal of chip.
  Be careful not to heat the minus side of tantalum capacitor, Because it is damaged by the heat.
- Some chip part will be indicated as follows.

  Example C541 22U TA A — Kinds of capacitor / Case size
  L452 10UH 2520 — External dimensions (mm)
- Constants of resistors, capacitors, ICs and etc with XX indicate that they are not used.
  In such cases, the unused circuits may be indicated.
- Parts with ★ differ according to the model/destination.
  Refer to the mount table for each function.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- Signal name
  XEDIT → $\overline{\text{EDIT}}$ PB/XREC → PB/$\overline{\text{REC}}$
- : non flammable resistor
- : fusible resistor
- : panel designation
- : B+ Line
- : B– Line
- : IN/OUT direction of (+,–) B LINE.
- : adjustment for repair.

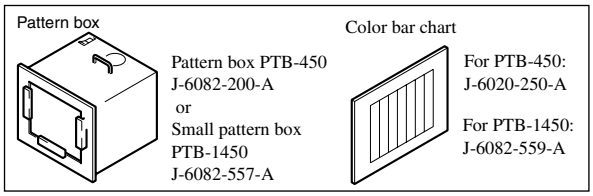
(Measuring conditions voltage and waveform)

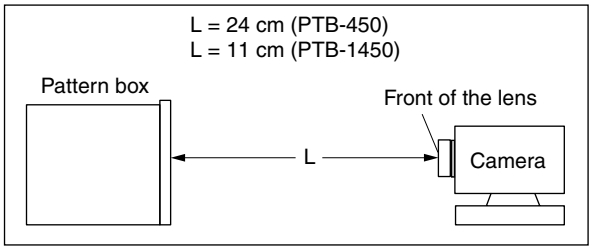
- Voltages and waveforms are measured between the measurement points and ground when camera shoots color bar chart of pattern box. They are reference values and reference waveforms.
  (VOM of DC 10 MΩ input impedance is used)
- Voltage values change depending upon input impedance of VOM used.)

Precautions for Replacement of Imager

- If the imager has been replaced, carry out all the adjustments for the camera section.
- As the imager may be damaged by static electricity from its structure, handle it carefully like for the MOS IC.
  In addition, ensure that the receiver is not covered with dusts nor exposed to strong light.

1. Connection





2. Adjust the distance so that the output waveform of Fig. a and the Fig. b can be obtain.

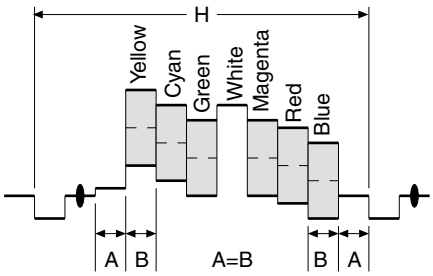


Fig. a (Video output terminal output waveform)

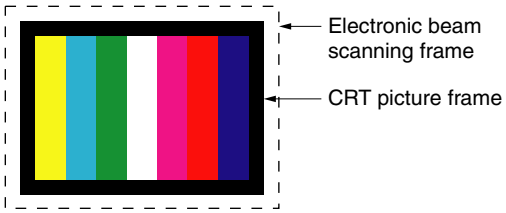


Fig.b (Picture on monitor TV)

When indicating parts by reference number, please include the board name.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifie.

(JAPANESE)

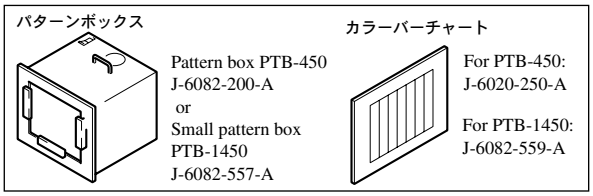
回路図共通ノート
（他に必要なノートは各ブロックに記載してあります）
【回路図ノート】
・ケミコン，タンタルを除くコンデンサで，耐圧50V以下のものはその耐圧を省略。単位はすべてμF（pはpF）。
・チップ抵抗で指示のないものは，1／10W以下。
kΩ＝1000Ω，MΩ＝1000kΩ
・チップ部品交換時の注意
取り外した部品は再使用せず，未使用の部品をご使用ください。
タンタルコンデンサのマイナス側は熱に弱いため注意してください。
・チップ部品には下記のように表示したものがあります。

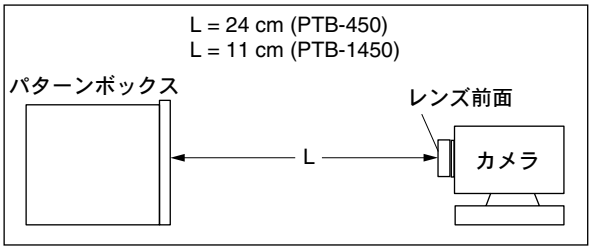
例	C 541	L 452
	22U	10UH
	TA A	2520
	↑ ↑	↑
	種類 ケースサイズ	外形寸法（mm）

・抵抗，コンデンサ，ICなど定数にXXがあるものは，使用していない事を示しています。このため，使用していない回路が記載されている事があります。
・★印のある部品は，機種などにより異なりますので機能別マウント一覧表を参照してください。
・可変抵抗と半固定抵抗で，B特性の表示を省略。
・信号名表記について，下記のような場合があります。
XEDIT → EDIT　　PB/XREC → PB/REC
・は不燃性抵抗。
・はヒューズ抵抗。
・はパネル表示名称。
・はB＋ライン。
・はB－ライン。
・はBライン（＋，－）の入出力方向を示す。
・は調整名称。
【電圧・波形測定条件ノート】
・電圧値及び信号波形はパターンボックスのカラーバーチャートを被写体としたときの測定点対アース間の参考値。
（デジタルマルチメータ；入力インピーダンス　DC10MΩ使用）
・使用テスタの入力インピーダンスにより電圧値が多少異なります。

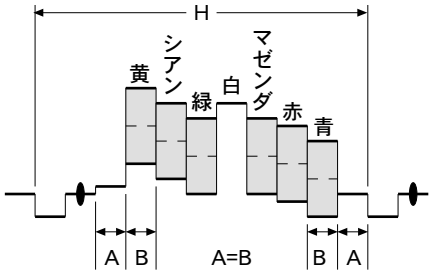
イメージャ交換時の注意
・イメージャを交換した場合は，カメラ部の全調整を行ってください。
・イメージャは構造上，静電気により破壊される恐れがあるため，MOS ICと同様に注意して取り扱ってください。
また，受光部にはゴミの付着，および強い光がはいることのないように注意してください。

1. 接続図

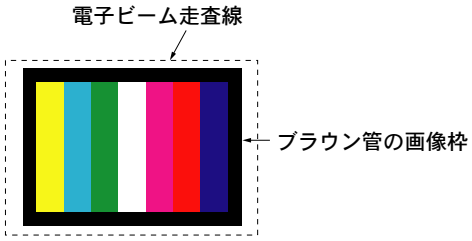




2. 図a及び図bの波形が得られるように画枠調整して下さい。



図a（映像入出力端子出力波形）



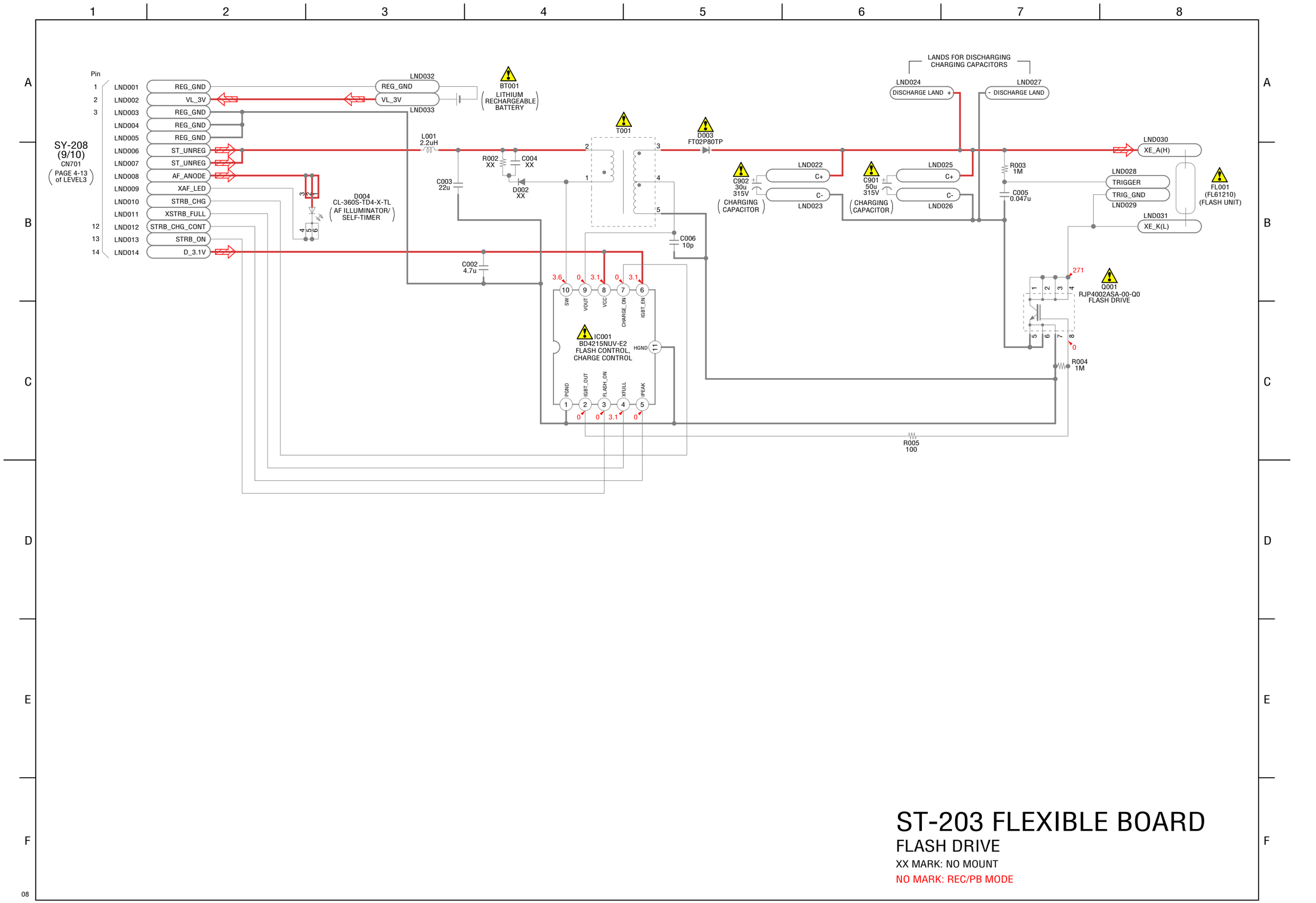
図b（テレビモニタの映像）

⚠印の部品，または⚠印付きの点線で囲まれた部品は，安全性を維持するために重要な部品です。
従って交換時は，必ず指定の部品を使用して下さい。

お願い
図面番号で部品を指定するときは基板名又はブロックを併せて指定して下さい。

Schematic diagrams of the CD-743 flexible board and SY-208 board are not shown.
Pages from 4-4 to 4-14 are not shown.

• Refer to page 4-2 (English), 4-3 (Japanese) for mark ⚠.



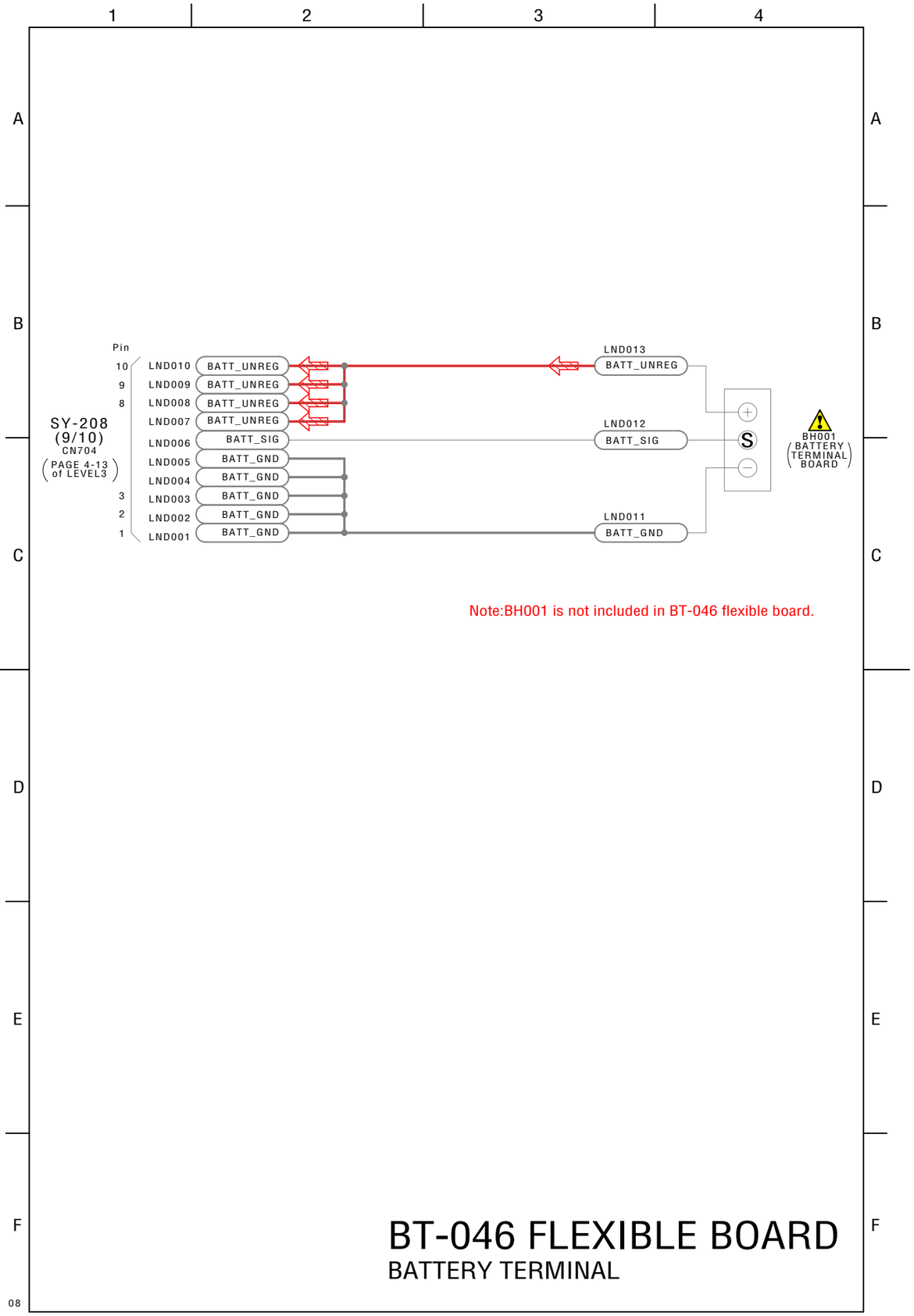
ST-203 FLEXIBLE BOARD

FLASH DRIVE

XX MARK: NO MOUNT

NO MARK: REC/PB MODE

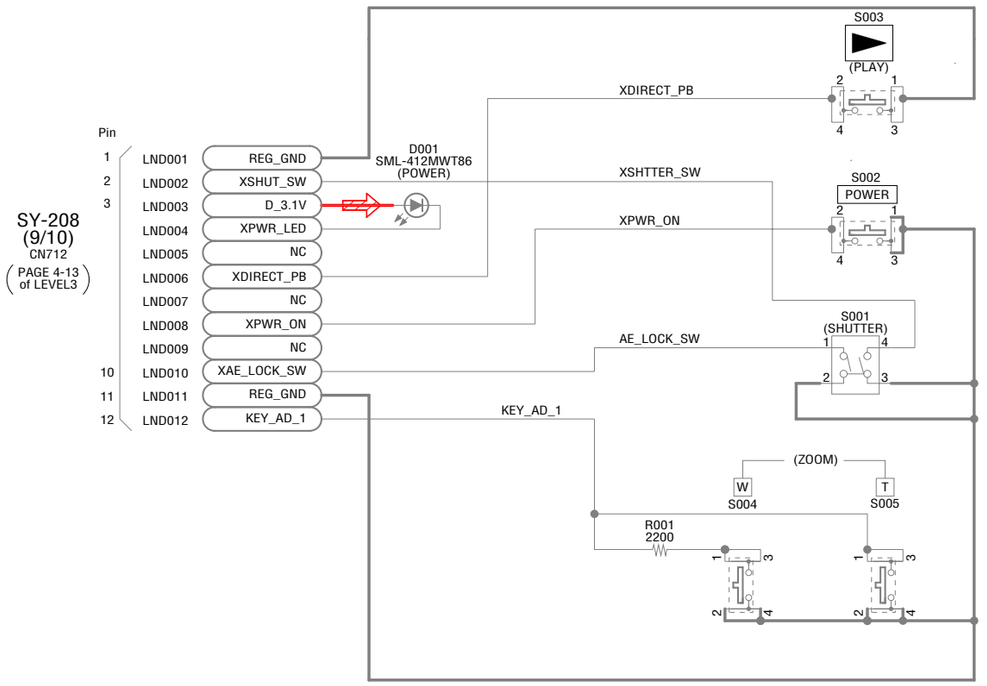
• Refer to page 4-2 (English), 4-3 (Japanese) for mark ⚠.



Note:BH001 is not included in BT-046 flexible board.

BT-046 FLEXIBLE BOARD

BATTERY TERMINAL



Note: All mounted parts and RL-083 flexible board are not supplied, but they are included in RL block assy.

RL-083 FLEXIBLE BOARD

CONTROL SWITCH

(RL-083 flexible board is replaced as block, so that PRINTED WIRING BOARD is omitted.)

4-3. PRINTED WIRING BOARDS

Link

- ST-203 FLEXIBLE BOARD
- BT-046 FLEXIBLE BOARD
- COMMON NOTE FOR PRINTED WIRING BOARDS

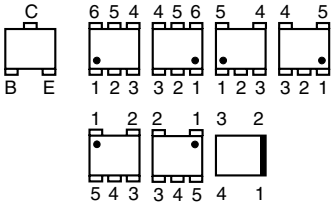
4-3. PRINTED WIRING BOARDS

(ENGLISH)

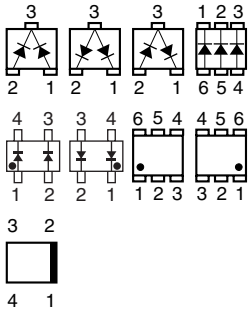
THIS NOTE IS COMMON FOR PRINTED WIRING BOARDS

- : Uses unleaded solder.
- : Circuit board
  : Flexible board
  Pattern from the side which enables seeing.
  : pattern of the rear side
  (The other layers' patterns are not indicated)
- Through hole is omitted.
- Circled numbers refer to waveforms.
- There are a few cases that the part printed on diagram isn't mounted in this model.
- : panel designation

- Chip parts.
  Transistor



Diode



(JAPANESE)

プリント図共通ノート
【プリント図ノート】

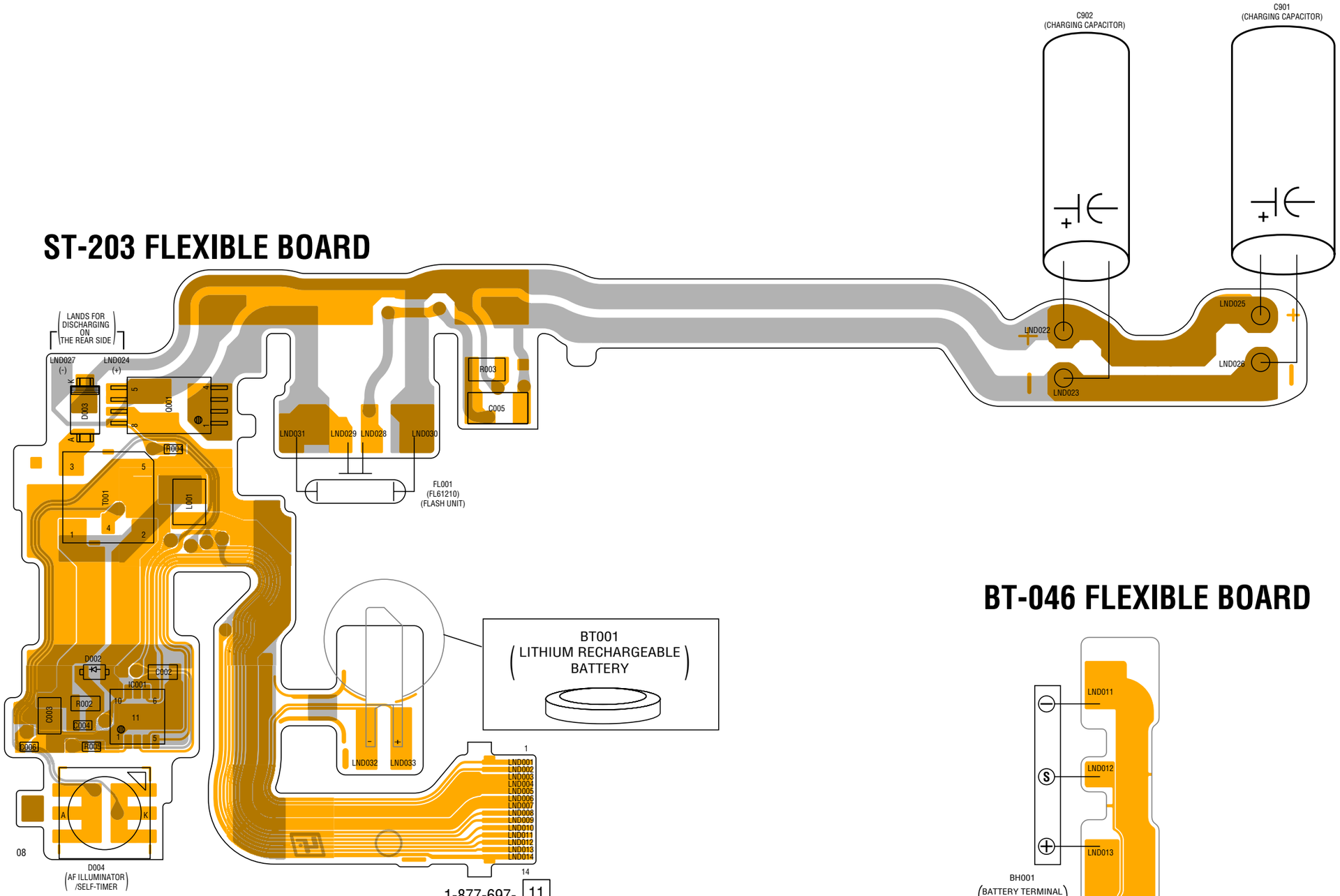
- ：無鉛半田を使用しています。
- ：基板
  ：フレキシブル配線板
  見ている面側のパターン。
  ：裏側のパターン
  （他のパターンについては表示されていません）
- スルーホールは省略。
- プリント図には，本機で使用していない部品が記載されている場合があります。
- はパネル表示名称。

Printed wiring boards of the CD-743 flexible board and SY-208 board are not shown.
Pages from 4-18 to 4-20 are not shown.

ST-203 (2 layers), BT-046 (1 layer)

: Uses unleaded solder.

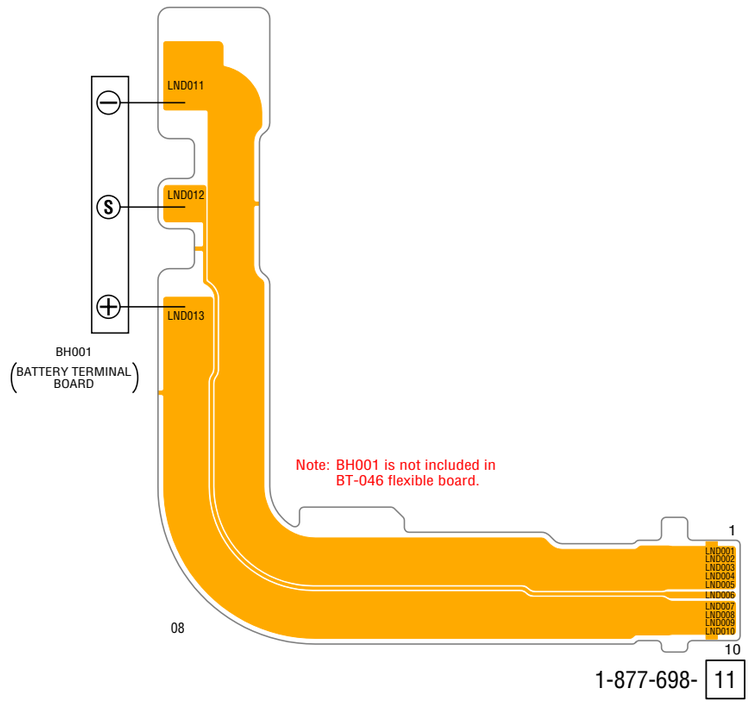
ST-203 FLEXIBLE BOARD



CAUTION
Danger of explosion if battery is incorrectly replaced.
Replace only with the same or equivalent type.

注意
電池の交換は，正しく行わないと破裂する恐れがあります。電池を交換する場合には必ず同じ型名の電池又は同等品と交換してください。

BT-046 FLEXIBLE BOARD



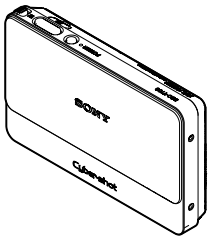
NOTE

5. REPAIR PARTS LIST

NOTE: Characters A to Z of the electrical parts list indicate location of exploded views in which the desired part is shown.

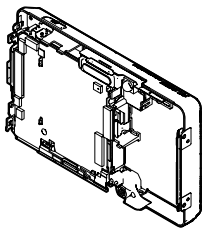
Link

EXPLODED VIEWS



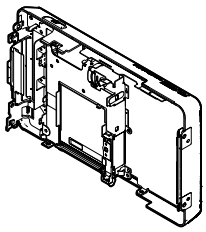
A

OVERALL SECTION



B

MAIN SECTION



C

REAR SECTION

Link

ELECTRICAL PARTS LIST

ACCESSORIES

- BT-046 FLEXIBLE BOARD B
- RL-083 FLEXIBLE BOARD A
- ST-203 FLEXIBLE BOARD B

5. REPAIR PARTS LIST

(ENGLISH)

NOTE:

- -XX, -X mean standardized parts, so they may have some differences from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- CAPACITORS:
  uF: µF
- COILS
  uH: µH
- RESISTORS
  All resistors are in ohms.
  METAL: metal-film resistor
  METAL OXIDE: Metal Oxide-film resistor
  F: nonflammable
- SEMICONDUCTORS
  In each case, u: µ, for example:
  uA...: µA... , uPA... , µPA... ,
  uPB... , µPB... , µPC... , µPC... ,
  uPD..., µPD...

When indicating parts by reference number, please include the board name.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

- Color Indication of Appearance Parts
  Example:
  (SILVER) : Cabinet's Color
  (Silver) : Parts Color

(JAPANESE)

【使用上の注意】

- **ここに記載されている部品は, 補修用部品であるため, 回路図及びセットに付いている部品と異なる場合があります。**
- **-XX, -Xは標準化部品のため, セットに付いている部品と異なる場合があります。**
- ***印の部品は常備在庫しておりません。**
- **コンデンサの単位でuFはµFを示します。**
- **抵抗の単位Ωは省略してあります。**
  金　　被：金属被膜抵抗。
  サンキン：酸化金属被膜抵抗。
- **インダクタの単位でuHはµHを示します。**
- **半導体の名称でuA..., uPA..., uPB..., uPC..., uPD...等はそれぞれµA..., µPA..., µPB..., µPC..., µPD...を示します。**

お願い
図面番号で部品を指定するときは基板名又はブロックを併せて指定してください。

⚠印の部品，または⚠印付の点線で囲まれた部品は，安全性を維持するために，重要な部品です。
従って交換時は,必ず指定の部品を使用してください。

- **外装部品色表示**
  例：
  (SILVER):セットの色を表す。
  (Silver) ：部品の色を表す。

- Abbreviation
  AR : Argentine model
  AUS : Australian model
  BR : Brazilian model
  CH : Chinese model
  CND : Canadian model
  EE : East European model
  HK : Hong Kong model
  J : Japanese model
  JE : Tourist model
  KR : Korea model
  NE : North European model
  TH : Thai model
  TW : Taiwan model

THE COMBINATION OF CABINET'S COLOR AND SCREW

The screw pointed ◌ is different according to the cabinet's color.
For the combination of cabinet's color and screw, please refer to Table 5-1.

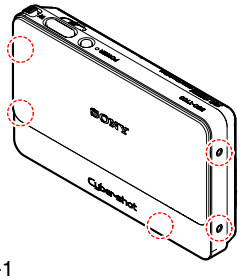


Table 5-1

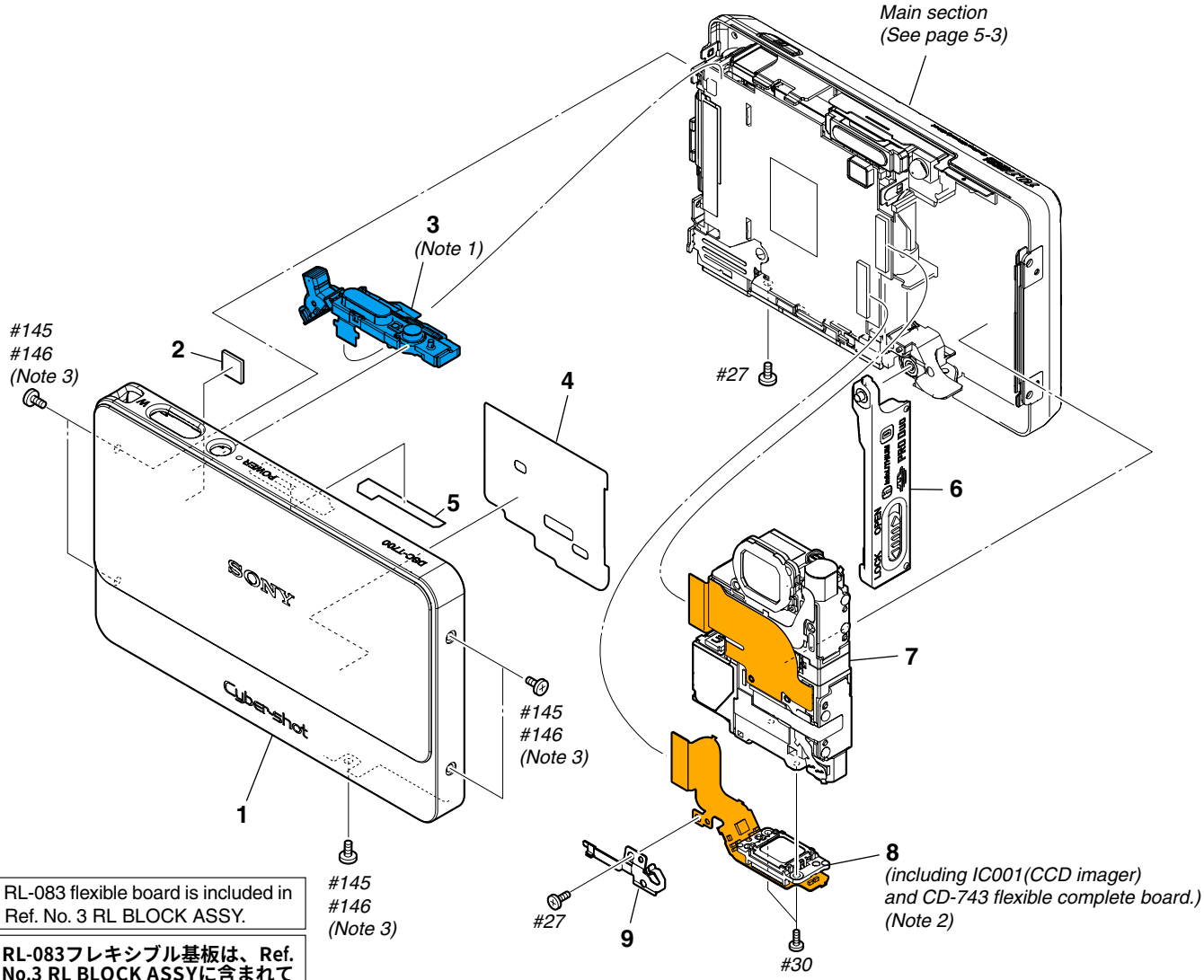
Screw's Ref. No. (Parts Color.)	Cabinet's Color
#145 (Silver)	*SILVER/GOLD/RED/PINK*
#146 (Black)	*GLAY*

5. REPAIR PARTS LIST

5-1. EXPLODED VIEWS

DISASSEMBLY | HARDWARE LIST

5-1-1. OVERALL SECTION



Note 1 : RL-083 flexible board is included in Ref. No. 3 RL BLOCK ASSY.

ノート 1 : RL-083フレキシブル基板は、Ref. No.3 RL BLOCK ASSYに含まれています。

Note 2 : Be sure to read “Precuations for Replacement of Imager” on page 4-2 when changing the imager.

ノート 2 : イメージャの交換時は4-3ページの“イメージャ交換時の注意”を必ずお読みください。

Note 3 :Please refer to “THE COMBINATION OF CABINET’S COLOR AND SCREW” on page 5-1 about the combination cabinet’s color and screw.

ノート3 : キャビネット色とネジの組合せについては、5-1ページの“THE COMBINATION OF CABINET’S COLOR AND SCREW”を参照してください。

Ref. No.	Part No.	Description
1	X-2319-584-1	CABINET FRONT ASSY (SILVER)
1	X-2319-585-1	CABINET FRONT ASSY (GRAY)
1	X-2319-586-1	CABINET FRONT ASSY (GOLD)
1	X-2319-587-1	CABINET FRONT ASSY (RED)
1	X-2319-588-1	CABINET FRONT ASSY (PINK)
* 2	4-113-581-01	CUSHION (P), FRONT
3	A-1558-196-A	RL BLOCK ASSY (RL-083) (SILVER) (Note 1)
3	A-1558-197-A	RL BLOCK ASSY (RL-083) (GRAY) (Note 1)
3	A-1558-198-A	RL BLOCK ASSY (RL-083) (GOLD) (Note 1)
3	A-1558-199-A	RL BLOCK ASSY (RL-083) (RED) (Note 1)
3	A-1558-200-A	RL BLOCK ASSY (RL-083) (PINK) (Note 1)
4	4-111-256-01	SHEET (250), PROTECTION
* 5	4-118-406-01	SHEET, INTERCEPTION PROTECTION
6	X-2319-598-1	LID ASSY (SILVER) (250), BT (SILVER)

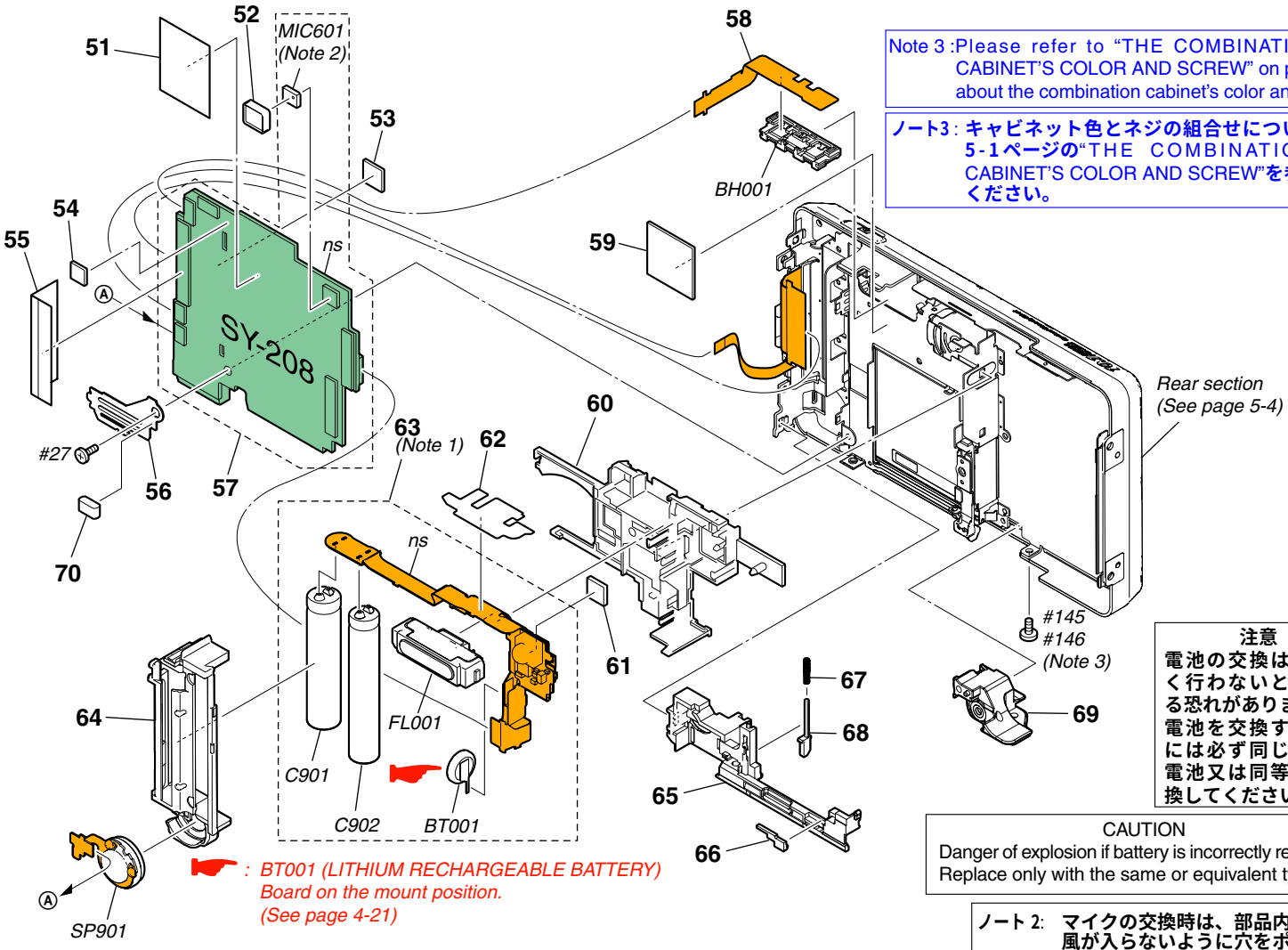
Ref. No.	Part No.	Description
6	X-2319-599-1	LID ASSY (GRAY) (250), BT (GRAY)
6	X-2319-600-1	LID ASSY (GOLD) (250), BT (GOLD)
6	X-2319-601-1	LID ASSY (RED) (250), BT (RED)
6	X-2319-616-1	LID ASSY (PINK) (250), BT (PINK)
7	A-1553-310-A	LSV-1300A (SERVICE USE)
8	A-1558-183-A	CCD BLOCK ASSY (SERVICE) (including IC001 (CCD imager)and CD-743 flexible complete board.) (Note 2)
* 9	4-111-249-01	PLATE, BT LID CLICK
#27	2-662-396-11	SCREW (M1.4), NEW, TRUSTAR, P2 (Black)
#30	3-086-156-11	SCREW B1.2 (White)
#145	4-111-248-01	SCREW (M1.4), NEW, TRUSTAR (Silver) (Note 3)
#146	4-111-248-11	SCREW (M1.4), NEW, TRUSTAR (Black) (Note 3)

5. REPAIR PARTS LIST

5-1-2. MAIN SECTION

ns: not supplied

DISASSEMBLY HARDWARE LIST



Note 3 :Please refer to "THE COMBINATION OF CABINET'S COLOR AND SCREW" on page 5-1 about the combination cabinet's color and screw.

ノート3 : キャビネット色とネジの組合せについては、5-1ページの"THE COMBINATION OF CABINET'S COLOR AND SCREW"を参照してください。

注意
電池の交換は，正しく行わないと破裂する恐れがあります。
電池を交換する場合には必ず同じ型名の電池又は同等品と交換してください。

CAUTION
Danger of explosion if battery is incorrectly replaced.
Replace only with the same or equivalent type.

ノート 2: マイクの交換時は、部品内に熱風が入らないように穴をポリイミドテープ等で塞いでください。

Note 2: On repairing microphone, cover the hole with polyimide tapes or the like so that the hot air does not go into the parts.

ノート 1: ST-203フレキシブル基板取り付け時は，"HELP08"を必ずお読みください。

Note 1: Be sure to read "HELP08" when you install the ST-203 flexible board.

• Refer to page 5-1 for mark ⚠.

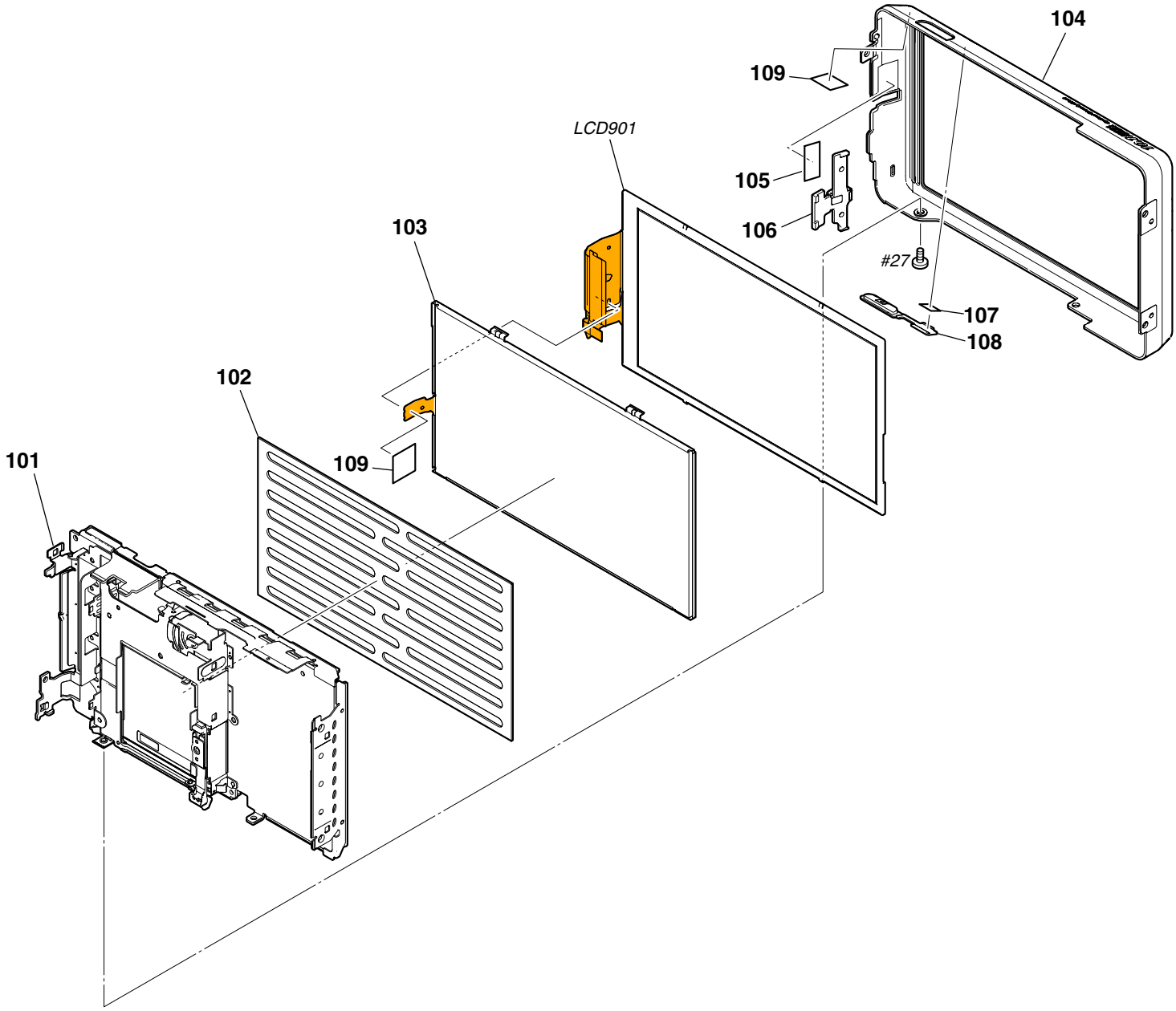
Ref. No.	Part No.	Description
* 51	4-111-262-01	SHEET, SY INSULATING (250)
52	4-111-391-01	HOLDER, MICROPHONE
* 53	4-113-584-01	CUSHION (S), REAR
* 54	4-113-582-01	CUSHION (H), FRONT
55	4-111-261-01	SHEET A (250), INSULATING
* 56	4-111-253-01	PLATE, MULTI FIXED
57	A-1558-214-A	SY-208 BOARD, COMPLETE (SERVICE)
58	1-877-698-11	BT-046 FLEXIBLE BOARD
* 59	4-111-401-01	CUSHION, REAR
* 60	4-111-252-01	HOLDER, ST
61	4-111-387-01	CUSHION, AF
62	4-111-260-01	SHEET, ST INSULATING (250)
63	A-1558-216-A	ST-203 FLEXIBLE BOARD, COMPLETE (Note 1)
* 64	4-111-251-01	HOLDER, SY
* 65	4-111-254-01	BASE, BT LID (SILVER)
* 65	4-111-254-11	BASE, BT LID (GRAY)
* 65	4-111-254-21	BASE, BT LID (GOLD)
* 65	4-111-254-31	BASE, BT LID (RED)
* 65	4-111-254-41	BASE, BT LID (PINK)
66	4-111-382-01	LIGHT, MS GUIDE,

Ref. No.	Part No.	Description
67	4-116-709-01	SPRING (250), BT LID PUSH-OUT
68	4-111-375-01	LID (PUSH OUT LOD), BT
* 69	4-111-250-01	SCREW, TRIPOD (SILVER)
* 69	4-111-250-11	SCREW, TRIPOD (GRAY)
* 69	4-111-250-21	SCREW, TRIPOD (GOLD)
* 69	4-111-250-31	SCREW, TRIPOD (RED)
* 69	4-111-250-41	SCREW, TRIPOD (PINK)
* 70	4-121-106-01	GASKET (MULTI)
⚠BH001	1-780-651-11	TERMINAL BOARD, BATTERY
⚠BT001	1-756-813-11	LITHIUM RECHARGEABLE BATTERY
⚠*C901	1-114-887-11	CAP, ELECT 50uF 99% 315V
⚠*C902	1-114-621-11	CAP, ELECT 30uF 99% 315V
⚠FL001	1-480-964-11	FLASH UNIT (FL61210)
MIC601	1-542-756-21	MICROPHONE (Note 2)
SP901	1-826-403-81	LOUDSPEAKER (1.0CM)
#27	2-662-396-11	SCREW (M1.4), NEW, TRUSTAR, P2 (Black)
#145	4-111-248-01	SCREW (M1.4), NEW, TRUSTAR (Silver) (Note 3)
#146	4-111-248-11	SCREW (M1.4), NEW, TRUSTAR (Black) (Note 3)

5. REPAIR PARTS LIST

5-1-3. REAR SECTION

DISASSEMBLY HARDWARE LIST



Ref. No.	Part No.	Description
101	X-2319-597-1	FRAME ASSY (250)
102	4-111-255-01	CUSHION, LCD
103	1-480-914-11	BLOCK, LIGHT GUIDE PLATE (3.5)
104	4-111-259-01	CABINET (REAR) (GRAY, SILVER)
104	4-111-259-11	CABINET (REAR) (GOLD, PINK, RED)
105	4-115-863-01	SHEET (STRAP), ADHESIVE
106	4-111-257-01	BRACKET, STRAP

Ref. No.	Part No.	Description
107	4-111-258-01	SHEET (PB), ADHESIVE
108	4-111-247-01	BUTTON, PLAY (GRAY, SILVER)
108	4-111-247-11	BUTTON, PLAY (GOLD, PINK, RED)
109	4-121-576-01	SHEET, SOLDER COVER
LCD901	A-1551-535-A	FTS BLOCK ASSY (35STMG08V)
#27	2-662-396-11	SCREW (M1.4), NEW, TRUSTAR, P2 (Black)

5-2. ELECTRICAL PARTS LIST

Ref. No.	Part No.	Description
	1-877-698-11	BT-046 FLEXIBLE BOARD
		**********

(BH001 is not included in BT-046 flexible board.)

< BATTERY TERMINAL BOARD >

⚠	BH001	1-780-651-11	TERMINAL BOARD, BATTERY

Electrical parts list of the CD-743 flexible board is not shown.
Page 5-6 is not shown.

• Refer to page 5-1 for mark ⚠.

Ref. No.	Part No.	Description
	A-1558-198-A	RL BLOCK ASSY (RL-083) (GOLD)
	A-1558-197-A	RL BLOCK ASSY (RL-083) (GRAY)
	A-1558-200-A	RL BLOCK ASSY (RL-083) (PINK)
	A-1558-199-A	RL BLOCK ASSY (RL-083) (RED)
	A-1558-196-A	RL BLOCK ASSY (RL-083) (SILVER)
	(Not supplied)	RL-083 FLEXIBLE BOARD
		**********

(All mounted parts and RL-083 flexible board are not supplied, but they are included in RL block assy.)

	A-1558-216-A	ST-203 FLEXIBLE BOARD, COMPLETE			
		**********			
		< LITHIUM RECHARGEABLE BATTERY >			
⚠	BT001	1-756-813-11	LITHIUM RECHARGEABLE BATTERY		
		< CAPACITOR >			
*	C002	1-112-746-11	CERAMIC CHIP	4.7uF	10% 6.3V
	C003	1-100-611-91	CERAMIC CHIP	22uF	20% 6.3V
	C005	1-100-758-11	CERAMIC CHIP	0.047uF	10% 250V
	C006	1-164-850-11	CERAMIC CHIP	10PF	0.5% 50V
⚠*	C901	1-114-887-11	CAP, ELECT	50uF	99% 315V
⚠*	C902	1-114-621-11	CAP, ELECT	30uF	99% 315V
		< DIODE >			
⚠	D003	6-501-141-01	DIODE FT02P80TP		
*	D004	6-501-861-01	DIODE CL-360S-TD4-X-TL (AF ILLUMINATOR/SELF-TIMER)		
		< FLASH >			
⚠	FL001	1-480-964-11	FLASH UNIT (FL61210)		
		< IC >			
⚠*	IC001	6-712-975-01	IC BD4215NUV-E2		
		< COIL >			
*	L001	1-400-820-11	INDUCTOR	2.2uH	
		< TRANSISTOR >			
⚠*	Q001	6-551-922-01	TRANSISTOR	RJP4002ASA-00-Q0	
		< RESISTOR >			
	R003	1-216-121-00	METAL CHIP	1M	5% 1/10W
	R004	1-218-989-11	RES-CHIP	1M	5% 1/16W
	R005	1-218-941-11	RES-CHIP	100	5% 1/16W
		< TRANSFORMER >			
⚠*	T001	1-445-491-21	D.C.-D.C.CONVERTER TRANSFORMER		

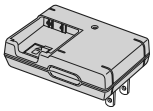
Electrical parts list of the SY-208 board is not shown.
Pages 5-8 to 5-11 are not shown.

CAUTION
Danger of explosion if battery is incorrectly replaced.
Replace only with the same or equivalent type.

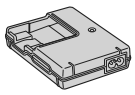
注意
電池の交換は，正しく行わないと破裂する恐れがあります。電池を交換する場合には必ず同じ型名の電池又は同等品と交換してください。

• Refer to page 5-1 for mark ⚠.

Checking supplied accessories.

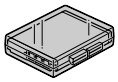


Battery charger
(BC-CSD)
⚠ 1-480-352-12 (J)
⚠ 1-480-352-22 (US, CND)

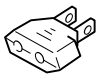


Battery charger
(BC-CSD)
⚠ 1-480-352-31 (BR)
⚠ 1-480-352-32
(EXCEPT US, CND, BR, J)

Power cord (mains lead)
(EXCEPT US, CND, BR, J)
⚠ 1-555-074-91 (AUS)
⚠ 1-783-952-61 (AR)
⚠ 1-792-549-41 (JE)
⚠ 1-827-269-12 (UK, HK)
⚠ 1-832-121-31 (CH)
⚠ 1-833-892-21 (KR)
⚠ 1-834-482-21 (AEP, E)
⚠ 1-835-434-11 (TH)



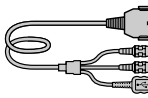
Rechargeable battery pack
(NP-BD1)
(Battery case is not supplied separately.)
⚠ A-1310-297-A (CH)
⚠ A-1567-200-A (US, CND)
⚠ A-1738-533-A (J)
⚠ A-1738-534-A
(EXCEPT US, CND, CH, J)



Conversion (2P) Adaptor
⚠ 1-569-008-12
(E (Except Middle East))

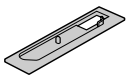
Conversion (2P) Adaptor
⚠ 1-569-007-12 (JE)

Instruction Manual
4-000-951-01 (JAPANESE) (J)
4-000-951-11 (ENGLISH) (CND, AEP, UK, E, HK, TH, AUS, JE)
4-000-951-21 (FRENCH, ITALIAN) (CND, AEP)
4-000-951-31 (SPANISH, PORTUGUESE) (AEP, E, AR, JE)
4-000-951-41 (GERMAN, DUTCH) (AEP)
4-000-951-51 (TRADITIONAL CHINESE,
SIMPLIFIED CHINESE) (E, HK, JE)
4-000-951-61 (RUSSIAN, UKRAINIAN) (AEP)
4-000-951-71 (ARABIC, PERSIAN) (E)
4-000-951-81 (KOREAN) (KR, JE)
4-000-951-91 (POLISH, CZECH) (AEP)
4-000-952-11 (HUNGARIAN, SLOVAK) (AEP)
4-000-952-21 (SWEDISH, FINNISH) (AEP)
4-000-952-31 (NORWEGIAN, DANISH) (AEP)
4-000-952-41 (MALAY) (E)
4-000-952-51 (TURKISH, GREEK) (AEP)
4-000-952-61 (ENGLISH, SPANISH) (US)
4-000-952-71 (SIMPLIFIED CHINESE) (CH)
4-000-952-81 (THAI) (TH)



USB, A/V cable for
multi-use terminal
1-835-875-12

Wrist strap
2-050-981-01 (Gray)
(EXCEPT GRAY Models)
2-050-981-11 (Black)
(GRAY Model)



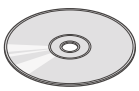
Station plate (G)
4-111-275-01

Paint pen
2-888-952-01 (Black)
(GRAY Model)
2-888-952-11 (Gray)
(EXCEPT GRAY Models)

Cyber-shot Handbook (PDF)

The CD-ROM supplied contains all of language version of the Instruction Manual in pdf (Cyber-shot Handbook.pdf) for printing.

- The printed matter is not supplied. If required, please order it with the part number below.
- (Only for destination Japanese model)
日本国内については日本語のみが印刷での部品供給可能です。



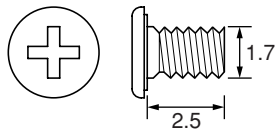
CD-ROM
(Cyber-shot application software /
“Cyber-shot Handbook” /
“Cyber-shot Step-up Guide”)
4-105-984-01

4-000-946-01 (JAPANESE)
* 4-000-946-11 (ENGLISH)
* 4-000-946-21 (FRENCH)
* 4-000-946-31 (ITALIAN)
* 4-000-946-41 (SPANISH)
* 4-000-946-51 (PORTUGUESE)
* 4-000-946-61 (GERMAN)
* 4-000-946-71 (DUTCH)
* 4-000-946-81 (TRADITIONAL CHINESE)
* 4-000-946-91 (SIMPLIFIED CHINESE)
* 4-000-947-11 (RUSSIAN)
* 4-000-947-21 (ARABIC)
* 4-000-947-31 (PERSIAN)
* 4-000-947-41 (KOREAN)
* 4-000-947-51 (POLISH)
* 4-000-947-61 (CZECH)
* 4-000-947-71 (HUNGARIAN)
* 4-000-947-81 (SLOVAK)
* 4-000-947-91 (SWEDISH)
* 4-000-948-11 (FINNISH)
* 4-000-948-21 (NORWEGIAN)
* 4-000-948-31 (DANISH)
* 4-000-948-41 (THAI)
* 4-000-948-51 (MALAY)
* 4-000-948-61 (TURKISH)
* 4-000-948-71 (GREEK)
* 4-000-948-81 (UKRAINIAN)

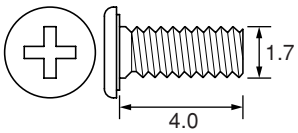
• Refer to page 5-1 for mark ⚠.

HARDWARE LIST (1/8)

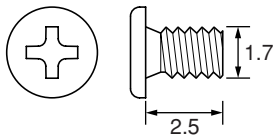
#1: M1.7 X 2.5
(Black)
2-635-562-11



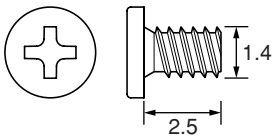
#2: M1.7 X 4.0
(Black)
2-635-562-31



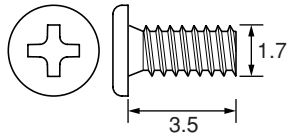
#3: M1.7 X 2.5
(Red)
2-660-401-01



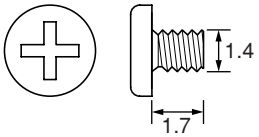
#4: M1.4 X 2.5 (Tapping)
(Dark Silver)
3-348-998-81



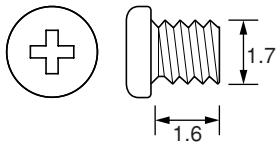
#5: M1.7 X 3.5 (Tapping)
(Black)
3-080-204-01



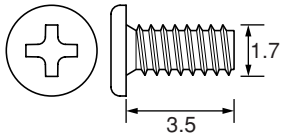
#6: M1.4 X 1.7
(Silver)
2-598-474-01



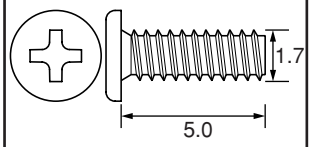
#7: M1.7 X 1.6
(Black)
7-627-552-18



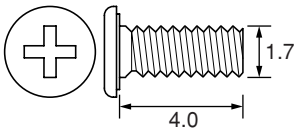
#8: M1.7 X 3.5 (Tapping)
(Silver)
3-078-890-01



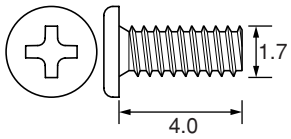
#9: M1.7 X 5.0 (Tapping)
(Silver)
3-078-890-21



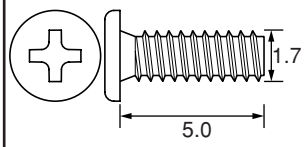
#10: M1.7 X 4.0
(Silver)
2-599-475-31



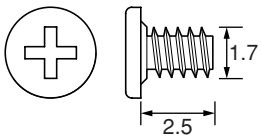
#11: M1.7 X 4.0 (Tapping)
(Silver)
3-078-890-11



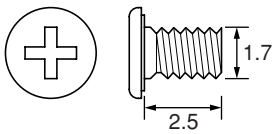
#12: M1.7 X 5.0 (Tapping)
(Black)
3-080-204-21



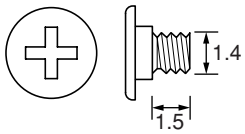
#13: M1.7 X 2.5 (Tapping)
(Silver)
3-085-397-01



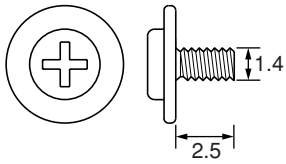
#14: M1.7 X 2.5
(Silver)
2-599-475-11



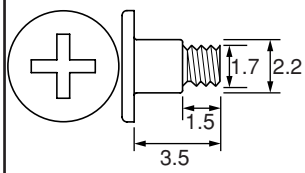
#15: M1.4 X 1.5
(Silver)
3-062-214-01



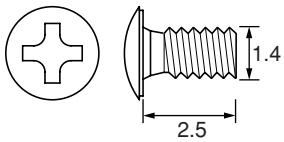
#16: M1.4 X 2.5
(Silver)
2-586-337-01



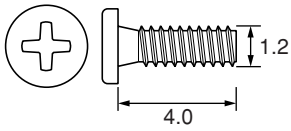
#17: M1.7 X 1.5
(Silver)
2-586-389-01



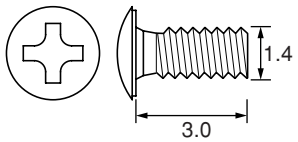
#18: M1.4 X 2.5
(Silver)
2-635-591-21



#19: M1.2 X 4.0 (Tapping)
(Red)
3-086-156-21

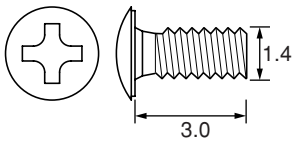


#20: M1.4 X 3.0
(Silver)
2-635-591-31

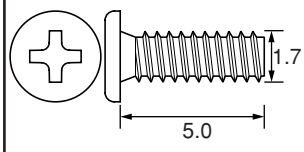


HARDWARE LIST (2/8)

#21: M1.4 X 3.0
(Black)
2-662-396-21



#22: M1.7 X 5.0 (Tapping)
(Silver)
3-083-261-01



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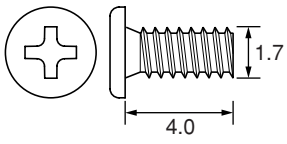
(Black)
3-080-204-11



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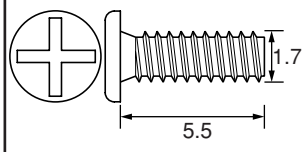
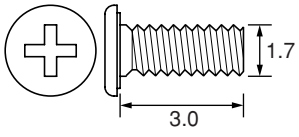
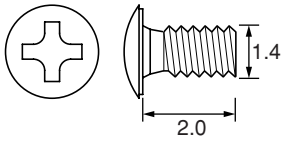
(Black)
4-679-805-11



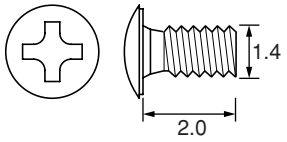
#25: M1.7 X 3.0
(Black)
2-635-562-21



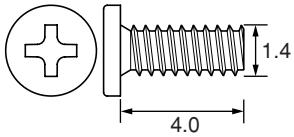
#26: M1.4 X 2.0
(Silver)
2-635-591-11



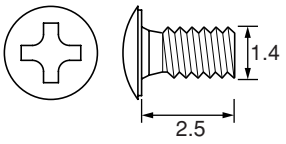
#27: M1.4 X 2.0
(Black)
2-662-396-11



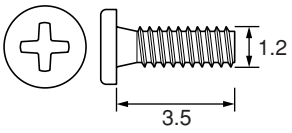
#28: M1.4 X 4.0 (Tapping)
(Silver)
3-348-998-61



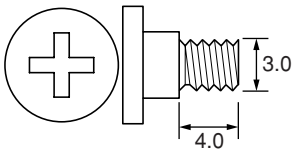
#29: M1.4 X 2.5
(Black)
2-662-396-01



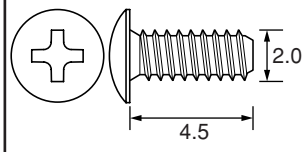
#30: M1.2 X 3.5 (Tapping)
(White)
3-086-156-11



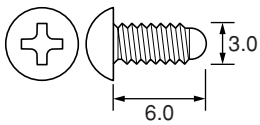
#31: M3.0 X 4.0
(Silver)
2-102-434-01



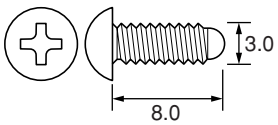
#32: M2.0 X 4.5 (Tapping)
(Silver)
2-102-498-01



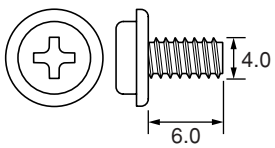
#33: M3.0 X 6.0
(Silver)
3-077-331-21



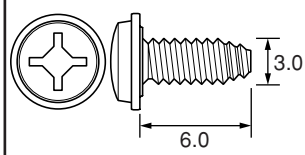
#34: M3.0 X 8.0
(Black)
3-077-331-41



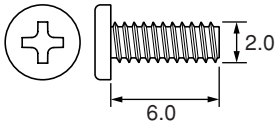
#35: M4.0 X 6.0 (Tapping)
(Silver)
3-975-291-02



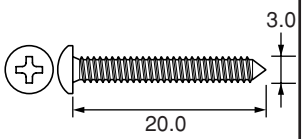
#36: M3.0 X 6.0
(Silver)
4-886-821-11



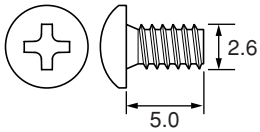
#37: M2.0 X 6.0 (Tapping)
(Black)
3-080-206-31



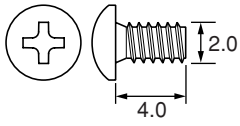
#38: M3.0 X 20.0 (Tapping)
(Silver)
7-685-651-79



#39: M2.6 X 5.0 (Tapping)
(Black)
7-685-791-09

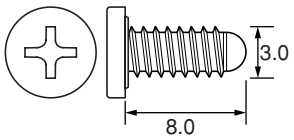


#40: M2.0 X 4.0 (Tapping)
(Silver)
7-685-851-04

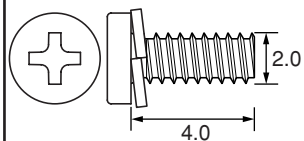


HARDWARE LIST (3/8)

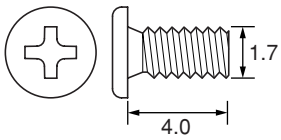
#41: M3.0 X 8.0 (Tapping)
(Silver)
3-065-748-01



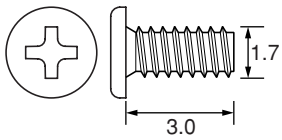
#42: M2.0 X 4.0 (Tapping)
(Silver)
7-628-253-00



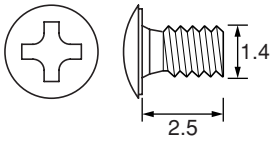
#43: M1.7 X 4.0
(Red)
2-660-401-31



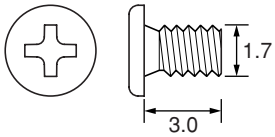
#44: M1.7 X 3.0 (Tapping)
(Silver)
3-078-890-61



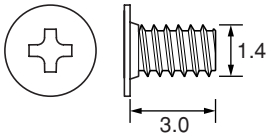
#45: M1.4 X 2.5
(Silver)
2-587-151-01



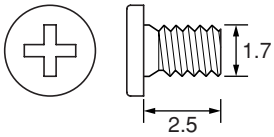
#46: M1.7 X 3.0
(Red)
2-660-401-11



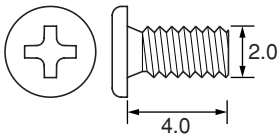
#47: M1.4 X 3.0 (Tapping)
(Silver)
2-665-774-01



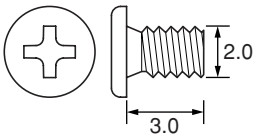
#48: M1.7 X 2.5
(Silver)
3-973-497-91



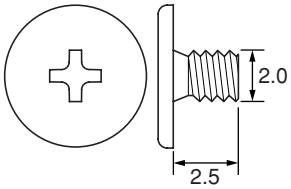
#49: M2.0 X 4.0
(Black)
2-630-005-31



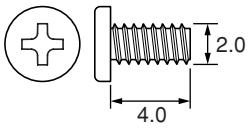
#50: M2.0 X 3.0
(Red)
2-891-494-11



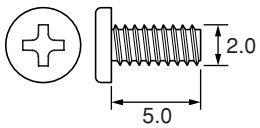
#51: M2.0 X 2.5
(Silver)
3-073-686-01



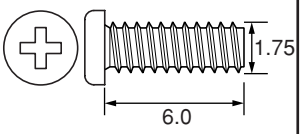
#52: M2.0 X 4.0 (Tapping)
(Black)
3-080-206-11



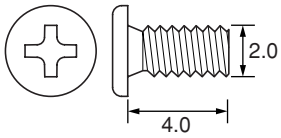
#53: M2.0 X 5.0 (Tapping)
(Black)
3-080-206-21



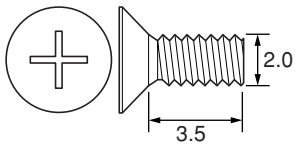
#54: M1.75 X 6.0 (Tapping)
(Black)
3-318-203-11



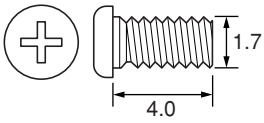
#55: M2.0 X 4.0
(Silver)
2-655-582-11



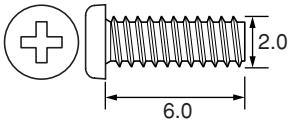
#56: M2.0 X 3.5
(Silver)
3-067-187-11



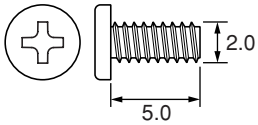
#57: M1.7 X 4.0
(Black)
7-627-852-18



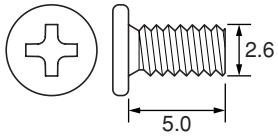
#58: M2.0 X 6.0 (Tapping)
(Silver)
3-719-408-11



#59: M2.0 X 5.0 (Tapping)
(Silver)
3-080-205-21

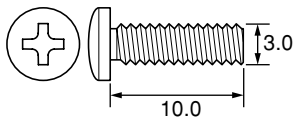


#60: M2.6 X 5.0
(Black)
3-061-062-11

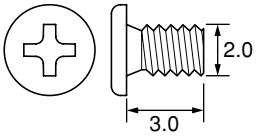


HARDWARE LIST (4/8)

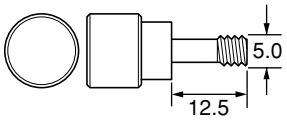
#61: M3.0 X 10.0
(Black)
7-682-549-09



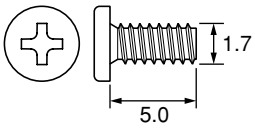
#62: M2.0 X 3.0
(Silver)
3-080-202-21



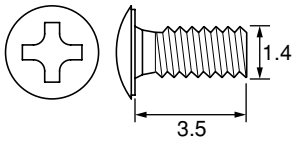
#63: M5.0 X 12.5
(Black)
3-060-811-21



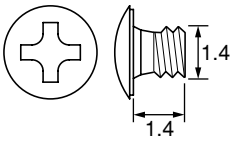
#64: M1.7 X 5.0 (Tapping)
(Silver)
2-666-551-21



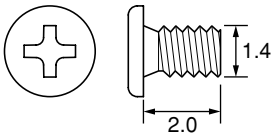
#65: M1.4 X 3.5
(Silver)
2-635-591-01



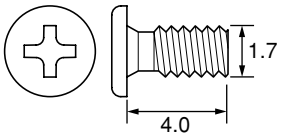
#66: M1.4 X 1.4
(Silver)
2-635-591-41



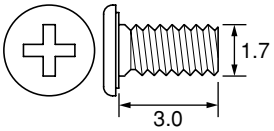
#67: M1.4 X 2.0
(Silver)
3-389-523-16



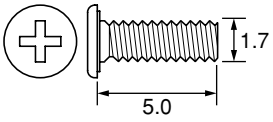
#68: M1.7 X 4.0
(Silver)
2-655-581-01



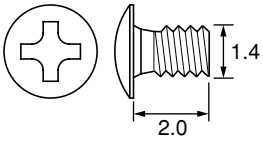
#69: M1.7 X 3.0
(Silver)
2-599-475-21



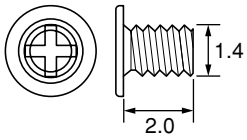
#70: M1.7 X 5.0
(Silver)
2-599-475-41



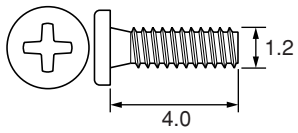
#71: M1.4 X 2.0
(Red)
3-208-537-01



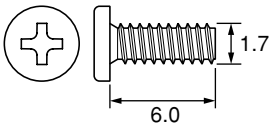
#72: M1.4 X 2.0
(Silver)
4-663-621-41



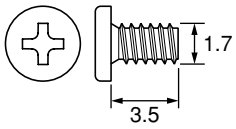
#73: M1.2 X 4.0 (Tapping)
(Black)
3-086-156-61



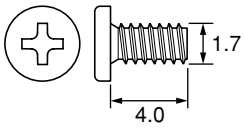
#74: M1.7 X 6.0 (Tapping)
(Silver)
2-666-551-31



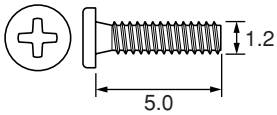
#75: M1.7 X 3.5 (Tapping)
(Silver)
2-666-551-01



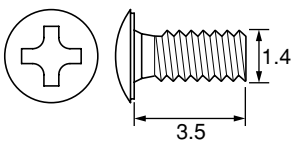
#76: M1.7 X 4.0 (Tapping)
(Silver)
2-666-551-11



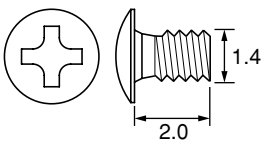
#77: M1.2 X 5.0 (Tapping)
(Silver)
3-086-156-31



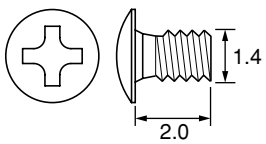
#78: M1.4 X 3.5
(Red)
3-208-537-11



#79: M1.4X 2.0
(Silver)
2-587-151-11

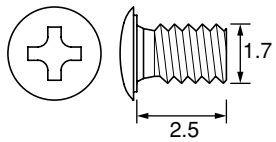


#80: M1.4X 2.0
(Black)
3-279-411-01

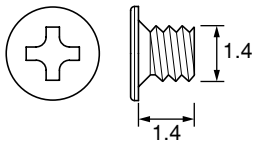


HARDWARE LIST (5/8)

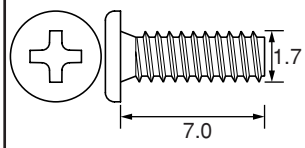
#81: M1.7 X 2.5
(Silver)
2-515-756-01



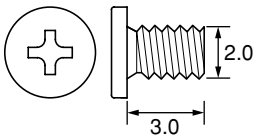
#82: M1.4 X 1.4
(Silver)
3-272-251-01



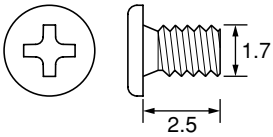
#83: M1.7 X 7.0 (Tapping)
(Black)
3-080-204-41



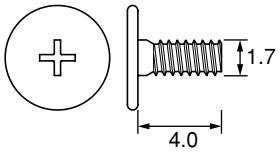
#84: M2.0 X 3.0
(Silver)
3-072-453-11



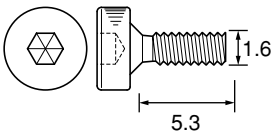
#85: M1.7 X 2.5
(Black)
2-515-483-11



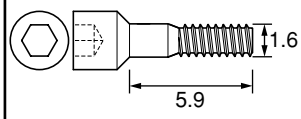
#86: M1.7 X 4.0 (Tapping)
(Silver)
2-695-434-21



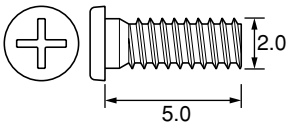
#87: M1.6 X 5.3
(Black)
2-689-328-01



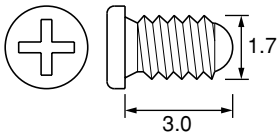
#88: M1.6 X 5.9 (Tapping)
(Silver)
2-689-015-01



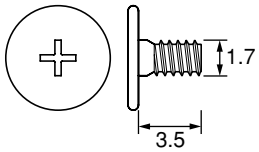
#89: M2.0 X 5.5 (Tapping)
(Silver)
2-695-575-01



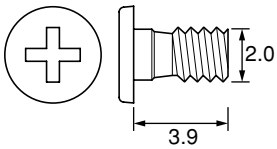
#90: M1.7 X 3.0
(Silver)
3-271-395-01



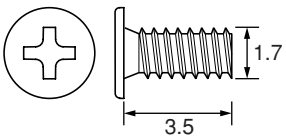
#91: M1.7 X 3.0 (Tapping)
(Silver)
2-695-434-11



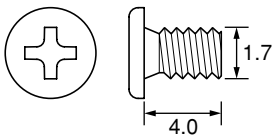
#92: M2.0 X 3.9
(Black)
3-268-954-01



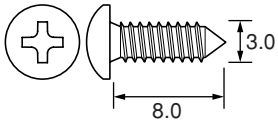
#93: M1.7 X 3.5 (Tapping)
(Silver)
3-254-082-01



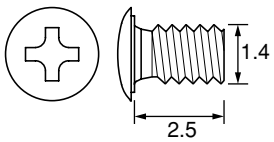
#94: M1.7 X 4.0
(Black)
2-515-483-31



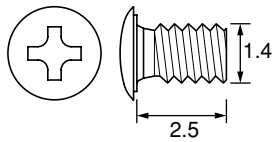
#95: M3.0 X 8.0 (Tapping)
(Black)
7-685-646-79



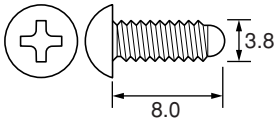
#96: M1.4 X 2.5
(Silver)
2-587-151-21



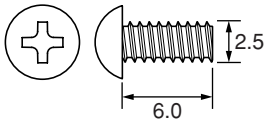
#97: M1.4 X 2.5
(Black)
2-662-396-31



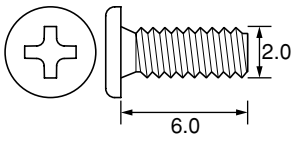
#98: M3.0 X 8.0
(Silver)
3-077-331-01



#99: M2.5 X 6.0 (Tapping)
(Silver)
3-776-750-02

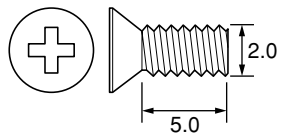


#100: M2.0 X 6.0
(Black)
3-080-203-51

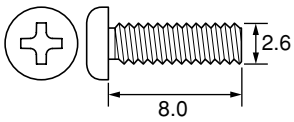


HARDWARE LIST (6/8)

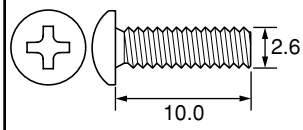
#101: M2.0 X 5.0
(Silver)
7-621-555-39



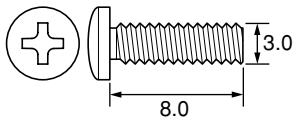
#102: M2.6 X 8.0
(Black)
7-621-284-30



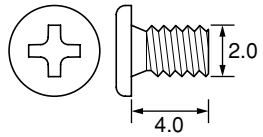
#103: M2.6 X 10.0
(Silver)
7-685-794-09



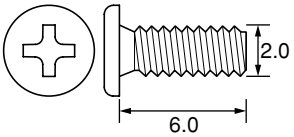
#104: M3.0 X 8.0
(Black)
7-682-548-09



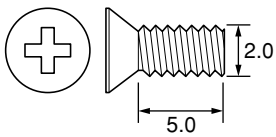
#105: M2.0 X 4.0
(Red)
2-891-494-31



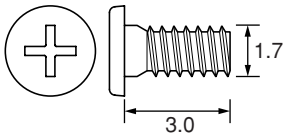
#106: M2.0 X 6.0
(Black)
3-713-786-11



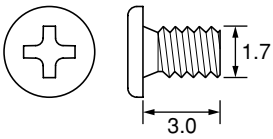
#107: M2.0 X 5.0
(Silver)
3-032-750-01



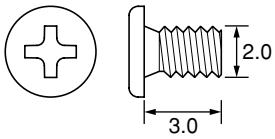
#108: M1.7 X 3.0 (Tapping)
(Black)
2-695-430-01



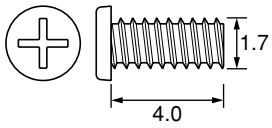
#109: M1.7 X 3.0
(Black)
2-515-483-21



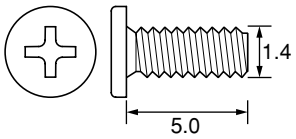
#110: M2.0 X 3.0
(Black)
2-630-005-21



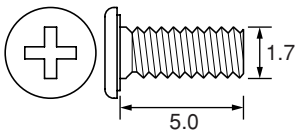
#111: M1.7 X 4.0 (Tapping)
(Black)
2-887-124-01



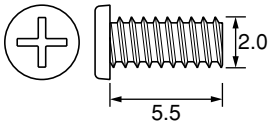
#112: M1.4 X 5.0
(Black)
2-178-410-11



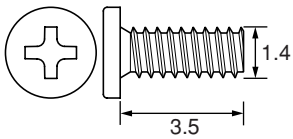
#113: M1.7 X 5.0
(Black)
2-635-562-41



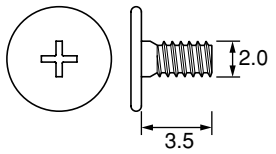
#114: M2.0 X 5.5 (Tapping)
(Silver)
2-698-464-01



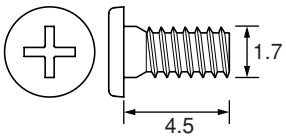
#115: M1.4 X 3.5 (Tapping)
(Silver)
3-348-998-51



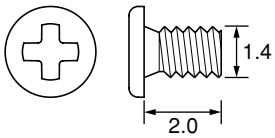
#116: M2.0 X 3.5 (Tapping)
(Silver)
2-695-435-01



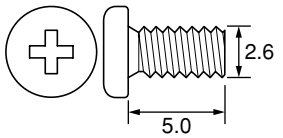
#117: M1.7 X 4.5 (Tapping)
(Silver)
2-695-429-31



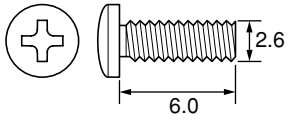
#118: M1.4 X 2.0
(Black)
2-655-580-01



#119: M2.6 X 5.0
(Black)
7-627-556-58

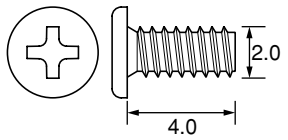


#120: M2.6 X 6.0
(Silver)
7-621-770-67

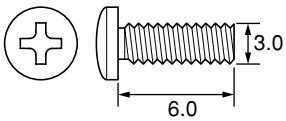


HARDWARE LIST (7/8)

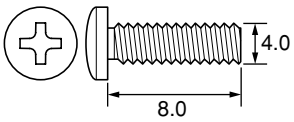
#121: M2.0 X 4.0 (Tapping)
(Silver)
3-080-205-11



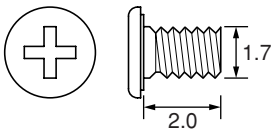
#122: M3.0 X 6.0
(Black)
7-682-547-09



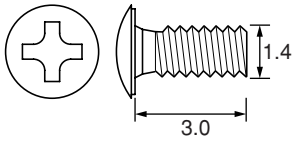
#123: M4.0 X 8.0
(Black)
7-682-561-09



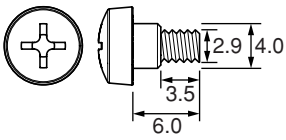
#124: M1.7 X 2.0
(Silver)
2-599-475-01



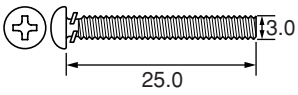
#125: M1.4 X 3.0
(Black)
3-291-847-01



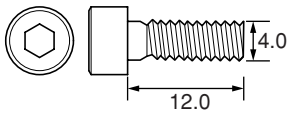
#126: M2.9 X 3.5
(Black)
3-292-616-01



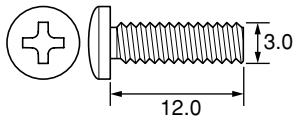
#127: M3.0 X 25.0
(Black)
7-682-654-09



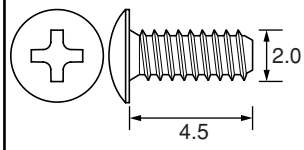
#128: M4.0 X 12.0
(Black)
3-452-472-01



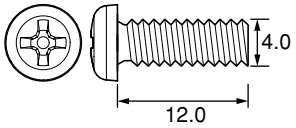
#129: M3.0 X 12.0
(Black)
7-682-550-09



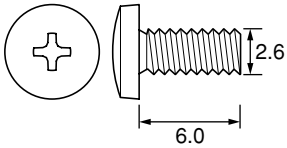
#130: M2.0 X 4.5 (Tapping)
(Silver)
3-732-817-11



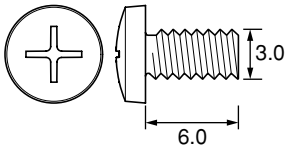
#131: M4.0 X 12.0
(Silver)
3-452-471-01



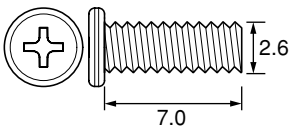
#132: M2.6 X 6.0
(Black)
4-673-655-01



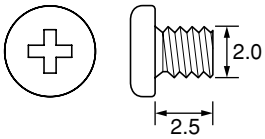
#133: M3.0 X 6.0
(Black)
3-452-484-01



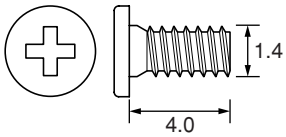
#134: M2.6 X 7.0
(Black)
3-299-572-01



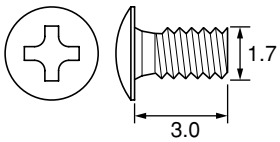
#135: M2.0 X 2.5
(Black)
7-627-553-28



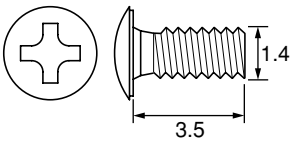
#136: M1.4 X 4.0 (Tapping)
(Black)
3-065-509-11



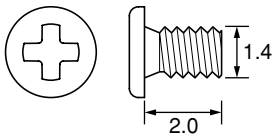
#137: M1.7 X 3.0
(Black)
3-090-976-62



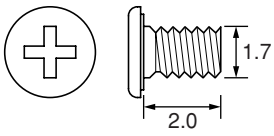
#138: M1.4 X 3.5
(Silver)
4-104-078-01



#139: M1.4 X 2.0
(Silver)
2-655-579-01

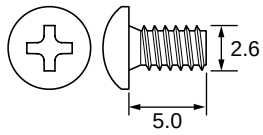


#140: M1.7 X 2.0
(Black)
2-635-562-01

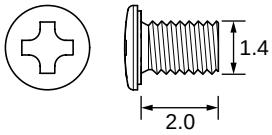


HARDWARE LIST (8/8)

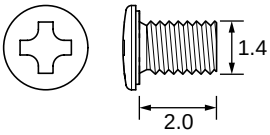
#141: M2.6 X 5.0 (Tapping)
(Silver)
7-685-791-01



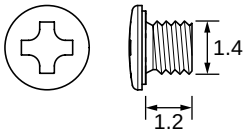
#142: M1.4 X 2.0
(Silver)
4-111-392-01



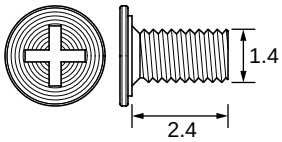
#143: M1.4 X 2.0
(Black)
4-111-392-11



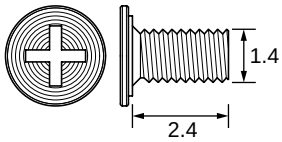
#144: M1.4 X 1.2
(Silver)
4-111-392-21



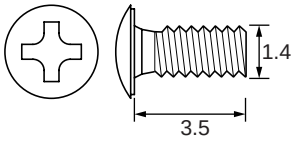
#145: M1.4 X 2.4
(Silver)
4-111-248-01



#146: M1.4 X 2.4
(Black)
4-111-248-11



#147: M1.4 X 3.5
(Black)
2-662-396-41



DSC-T700

SONY

LEVEL 2

SERVICE MANUAL

Ver. 1.1 2009.01

US Model
Canadian Model
AEP Model
UK Model
E Model
Australian Model
Hong Kong Model
Chinese Model
Korea Model
Argentine Model
Brazilian Model
Thai Model
Japanese Model
Tourist Model

SUPPLEMENT-1

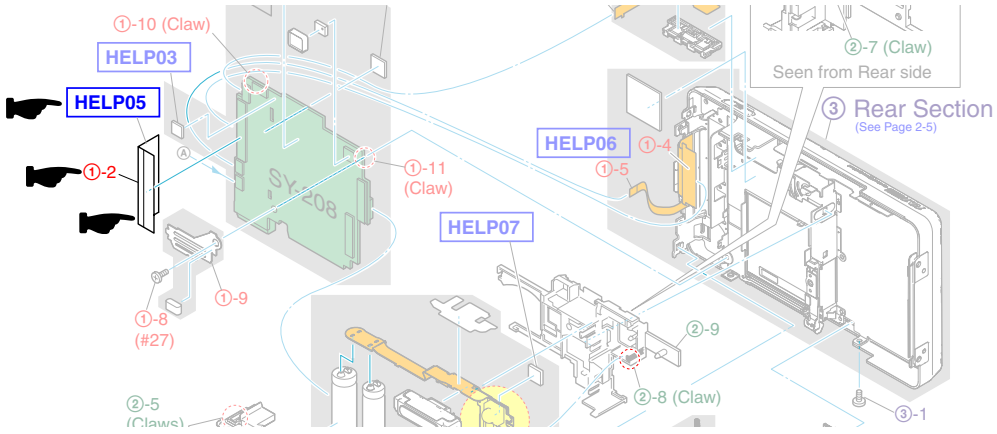
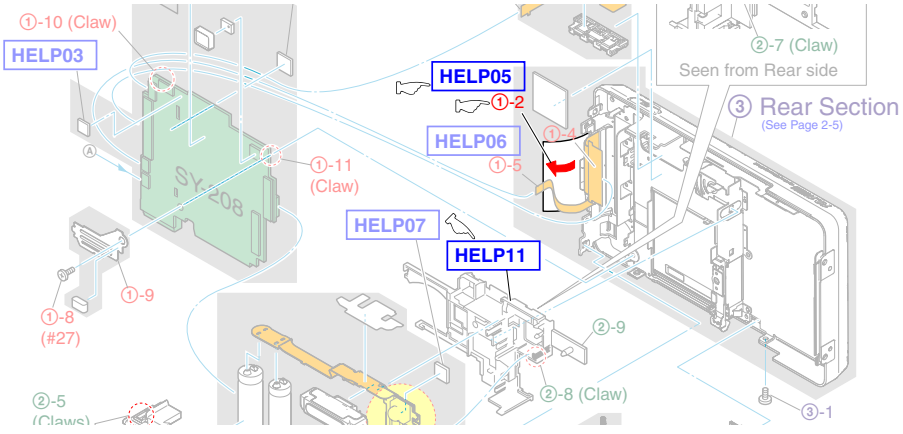
File this supplement with the service manual.
(DI08-314)

Subject
- **Change of DISASSEMBLY**
- **Addition of HELP**
- **Change of EXPLODED VIEW**

2. DISASSEMBLY

2-2. DISASSEMBLY

☛ : Points deleted portion ☞ : Points added portion

Page	Before Change
2-4	**2-2-2. MAIN SECTION** 
	After Change
	2-2-2. MAIN SECTION 

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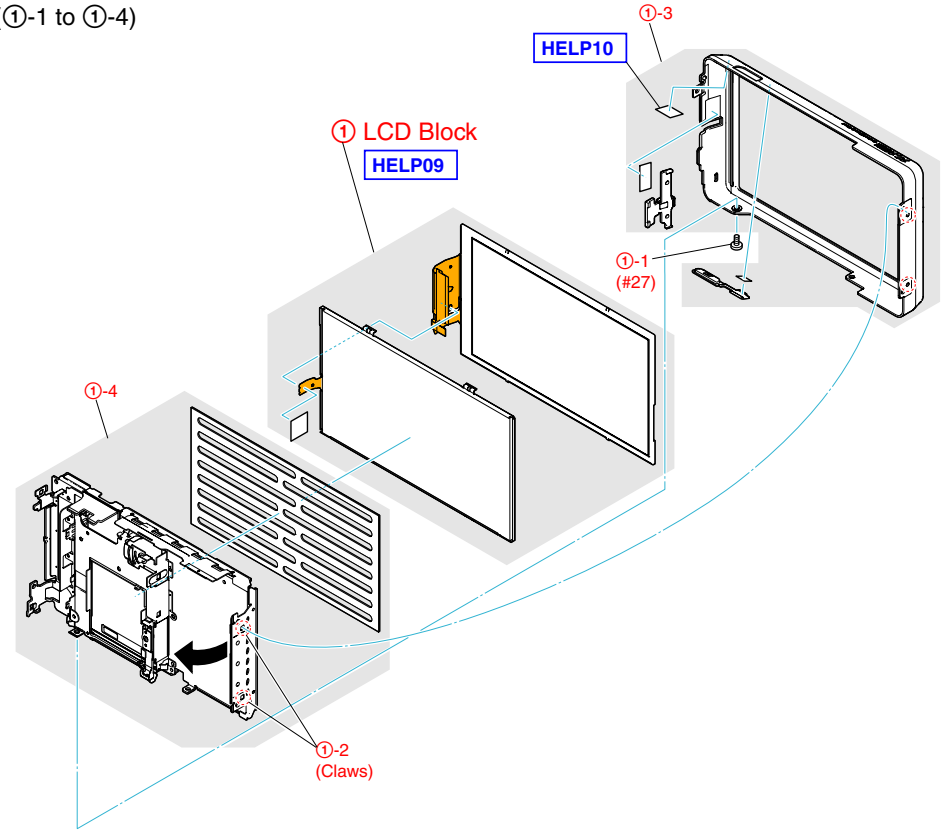
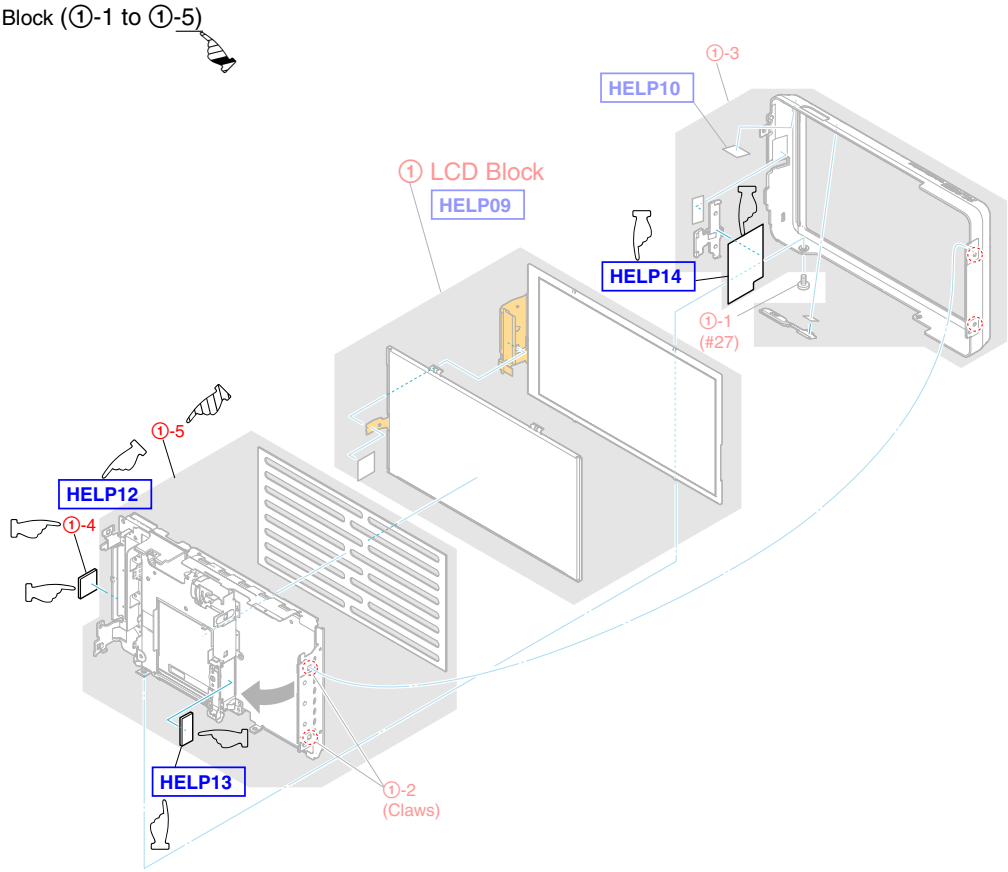
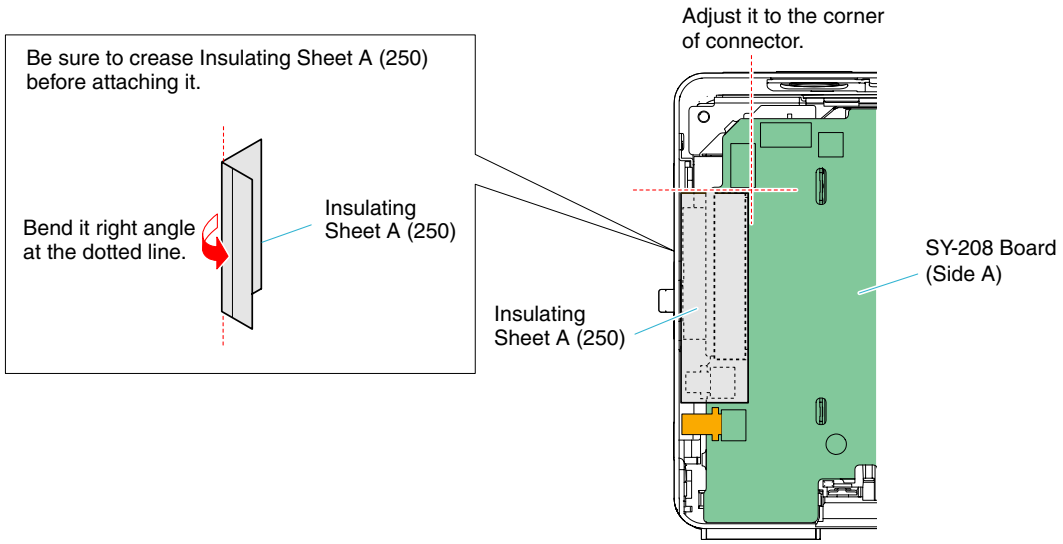
: Points added portion : Points changed portion

Page	Before Change
2-5	**2-2-3. REAR SECTION** ① LCD Block (①-1 to ①-4) 
	After Change
	2-2-3. REAR SECTION ① LCD Block (①-1 to ①-5) 

Before Change

HELP05

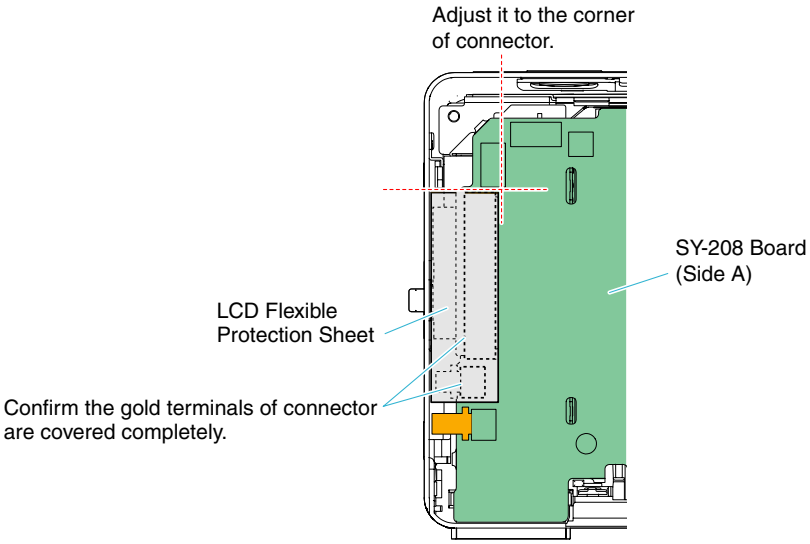
INSULATING SHEET A (250) PUTTING POSITION


Be sure to crease Insulating Sheet A (250) before attaching it.
Bend it right angle at the dotted line.
Insulating Sheet A (250)
Adjust it to the corner of connector.
SY-208 Board (Side A)
Insulating Sheet A (250)

After Change

HELP05

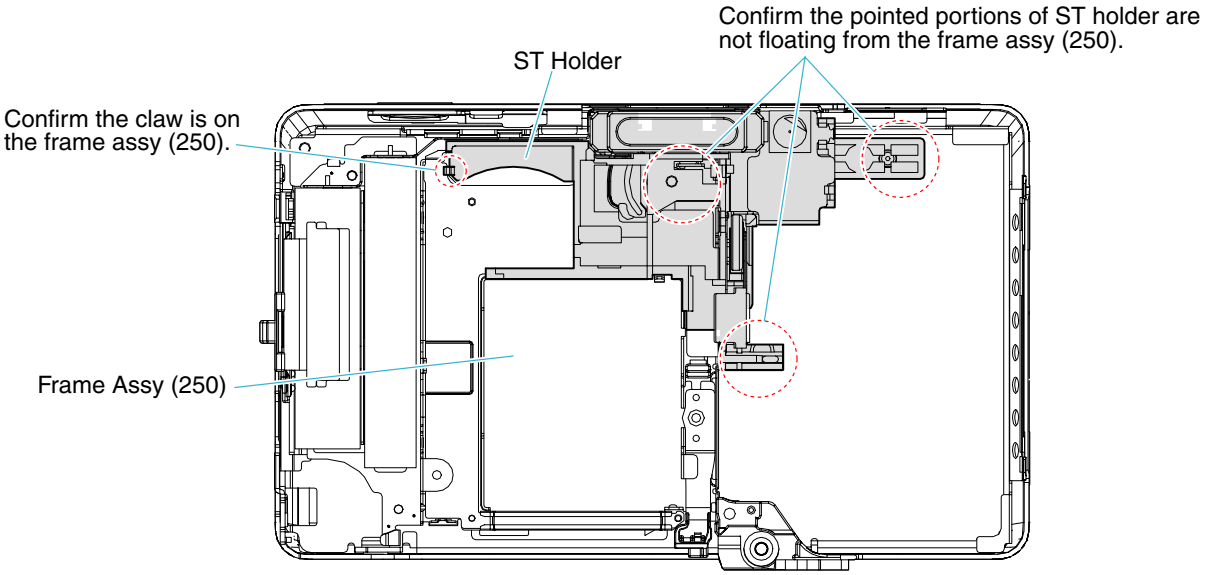
LCD FLEXIBLE PROTECTION SHEET PUTTING POSITION


Adjust it to the corner of connector.
SY-208 Board (Side A)
LCD Flexible Protection Sheet
Confirm the gold terminals of connector are covered completely.

HELP (Additional Contents) (1/2)

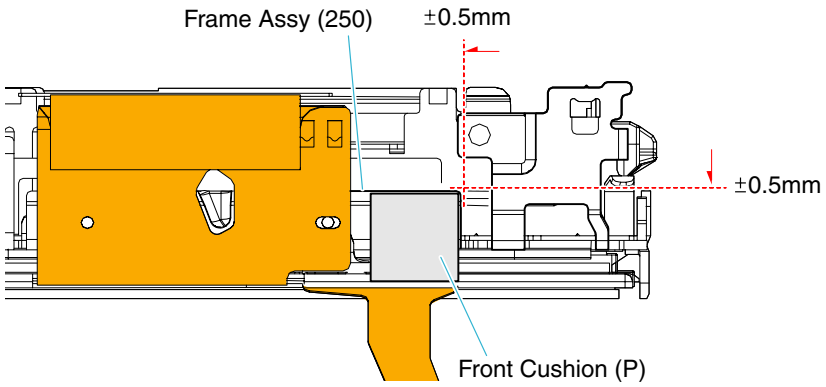
HELP11

INSTALLATION CAUTIONS OF THE ST HOLDER


Confirm the pointed portions of ST holder are not floating from the frame assy (250).
ST Holder
Confirm the claw is on the frame assy (250).
Frame Assy (250)

HELP12

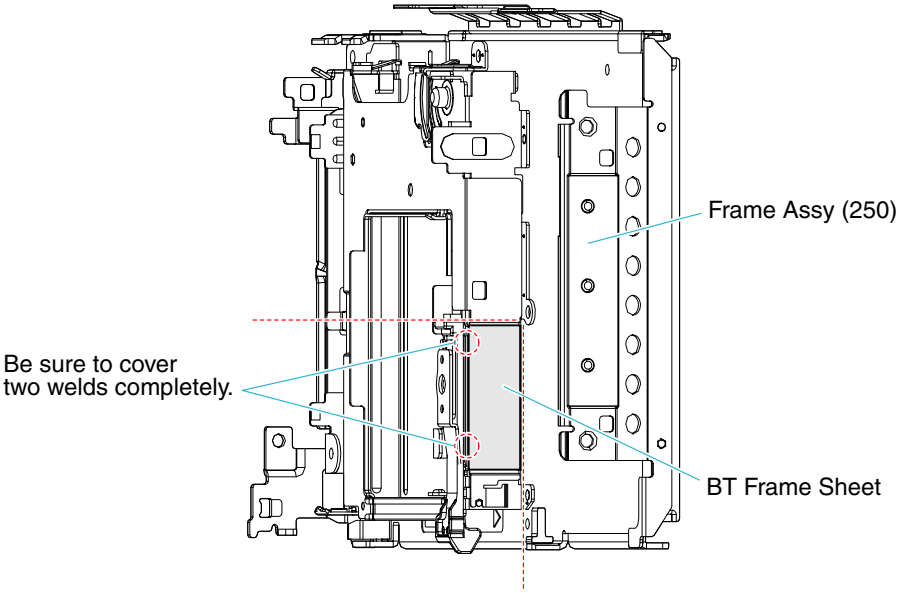
FRONT CUSHION (P) PUTTING POSITION



HELP (Additional Contents) (2/2)

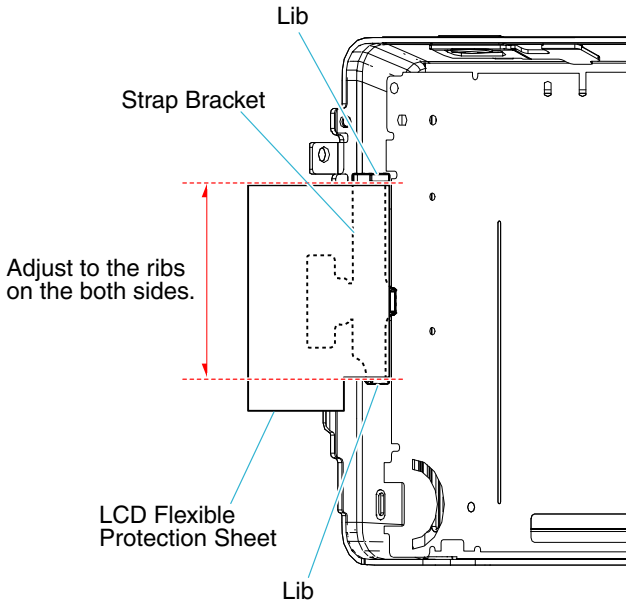
HELP13

BT FRAME SHEET PUTTING POSITION



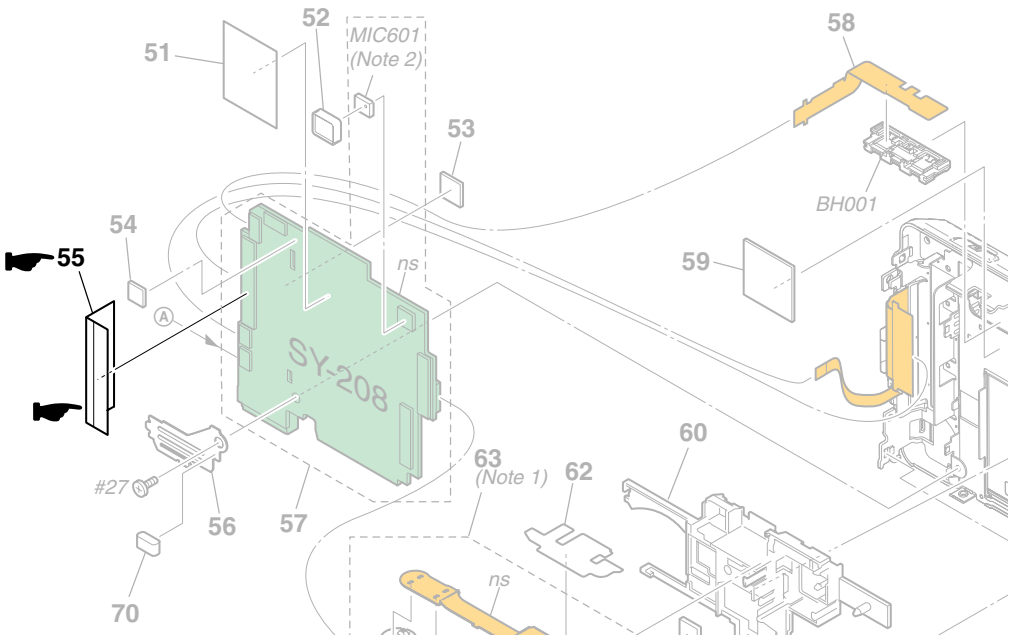
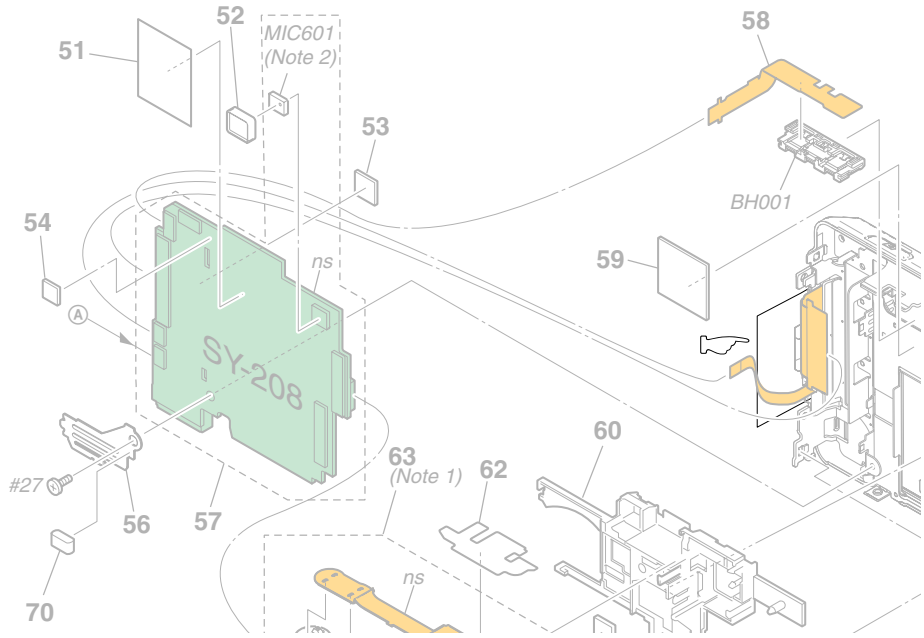
HELP14

LCD FLEXIBLE PROTECTION SHEET PUTTING POSITION



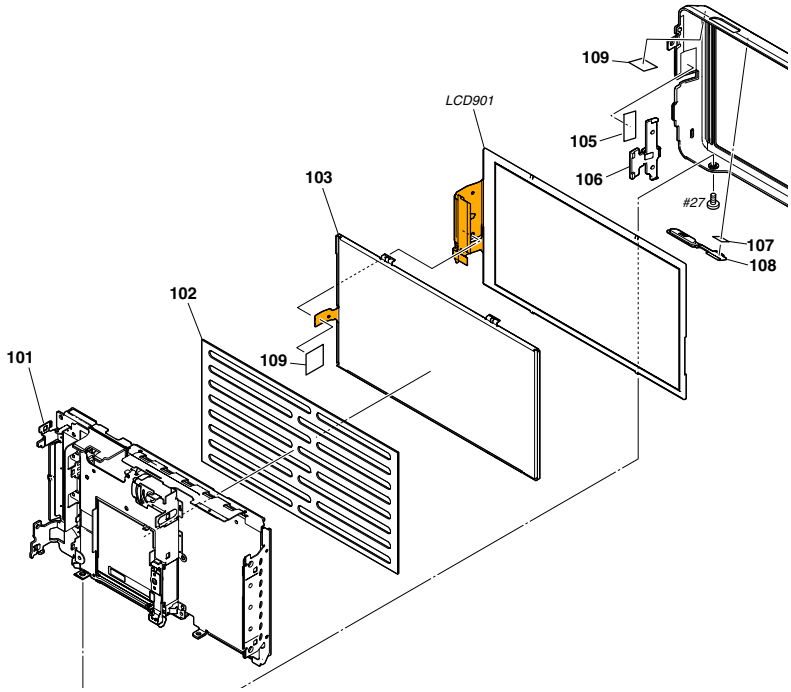
5. REPAIR PARTS LIST
5-1. EXPLODED VIEW

☛ : Points deleted portion

Page	Before Change
	5-1-2. MAIN SECTION ns: not supplied  Ref. No. Part No. Description 55 4-111-261-01 SHEET A (250), INSULATING ☛
5-3	**After Change**
	5-1-2. MAIN SECTION ns: not supplied  Ref. No. Part No. Description — ——— ———

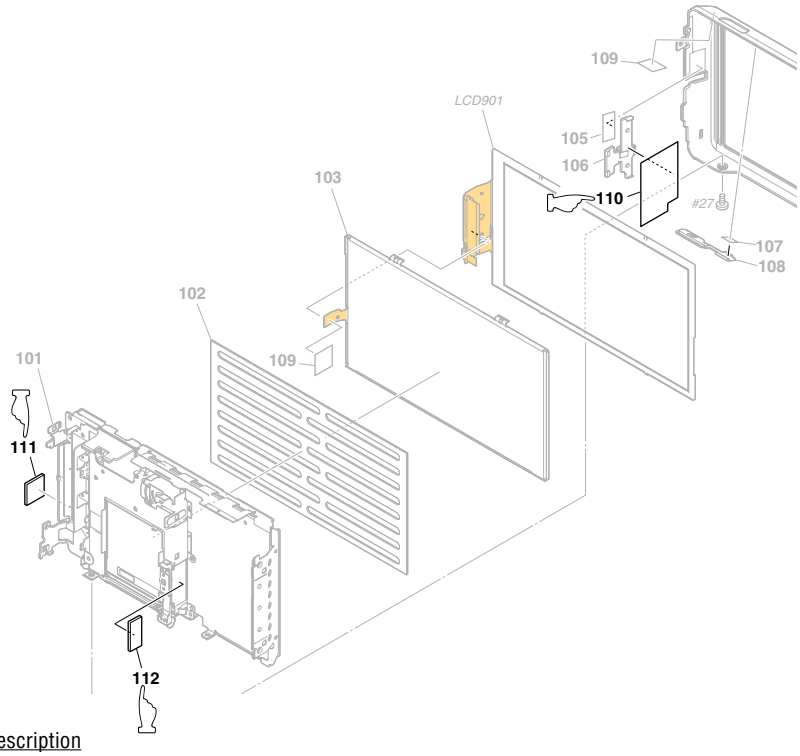
: Points added portion

Page	Before Change
	5-1-3. REAR SECTION



Ref. No.	Part No.	Description

Page	After Change
5-4	**5-1-3. REAR SECTION**



Ref. No.	Part No.	Description
110	4-133-912-01	SHEET, LCD FLEXIBLE PROTECTION
* 111	4-113-581-01	CUSHION (P), FRONT
112	4-132-947-01	SHEET, BT FRAME

DSC-T700

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LEVEL 2

SERVICE MANUAL

Ver. 1.2 2009.10

US Model
Canadian Model
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Australian Model
Hong Kong Model
Chinese Model
Korea Model
Argentine Model
Brazilian Model
Thai Model
Japanese Model
Tourist Model

SUPPLEMENT-2

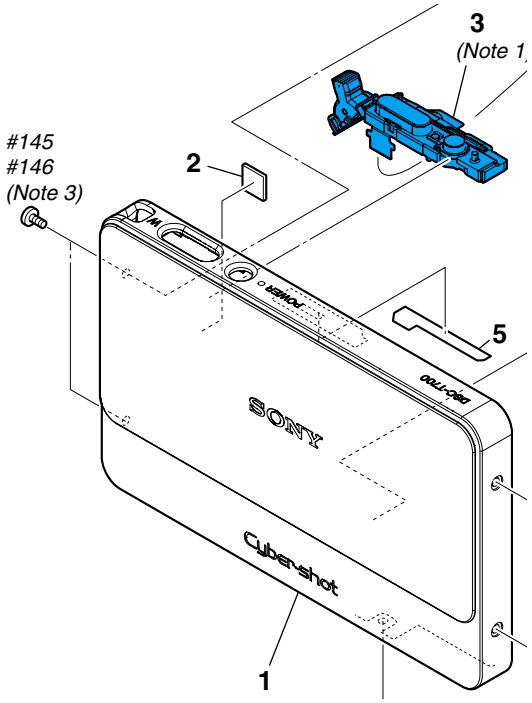
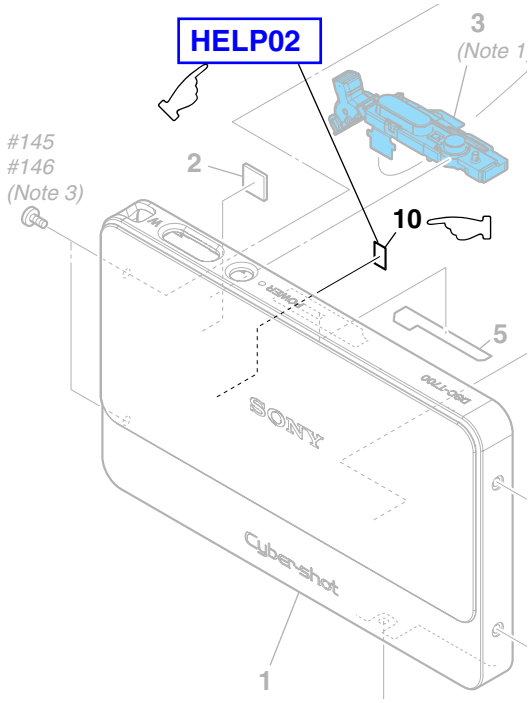
File this supplement with the service manual.
(09-221)

Subject
- **Change of Exploded Views**
- **Revision of HELP**
- **Revision of Accessories**

Note : Please refer to Ver.1.2 of SERVICE MANUAL (9-852-607-33) for the revision of accessories.

5. REPAIR PARTS LIST
5-1. EXPLODED VIEWS

☞ : Points added portion

Page	Before Change	After Change
5-2	**5-1-1. OVERALL SECTION**  Ref. No. Part No. Description —	**5-1-1. OVERALL SECTION**  Ref. No. Part No. Description * 10 4-145-957-01 SHEET, CABINET (FRONT PET)

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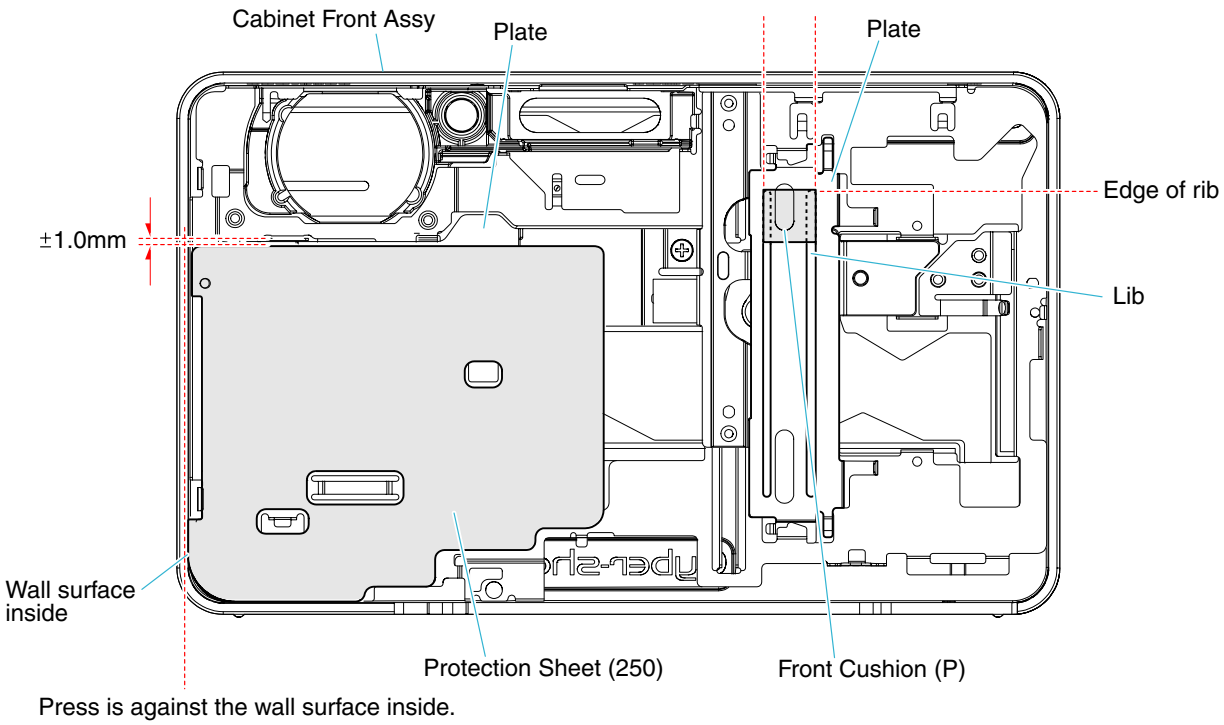
• REVISION OF HELP

☞ : Points added portion

Before Change

HELP02

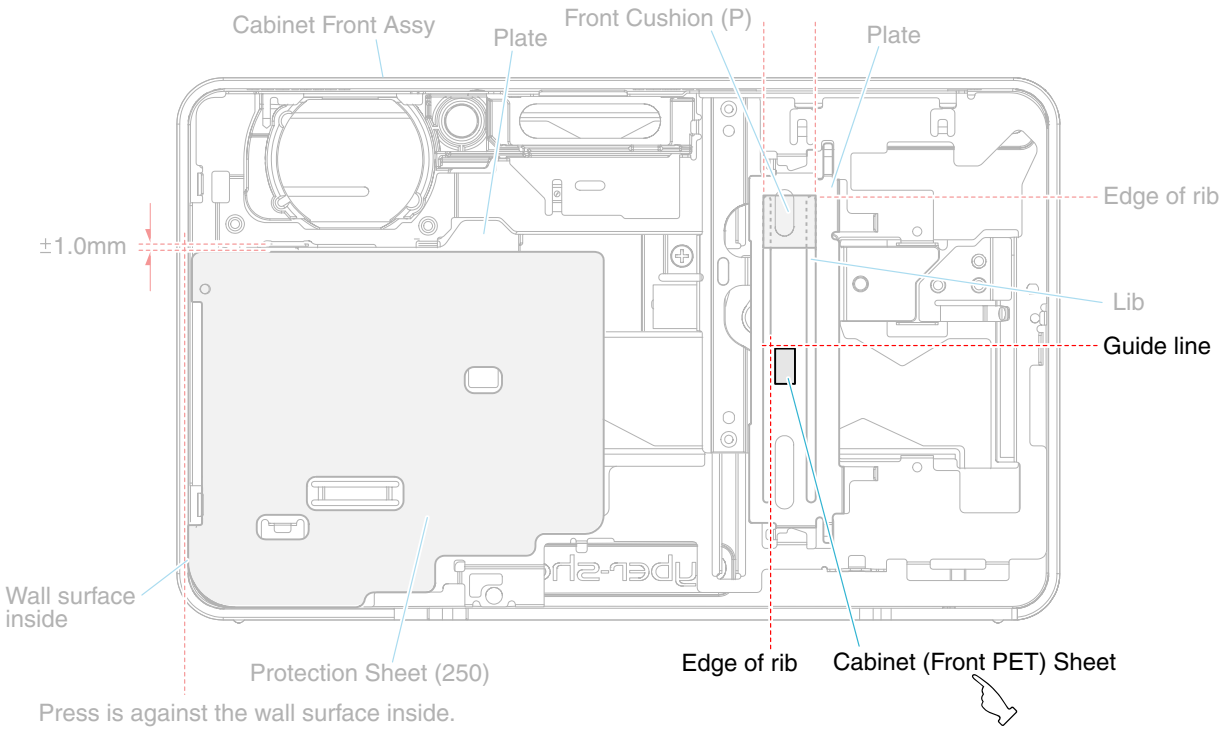
PROTECTION SHEET (250), FRONT CUSHION (P) PUTTING POSITION



After Change

HELP02

PROTECTION SHEET (250), FRONT CUSHION (P) PUTTING POSITION



Revision History

Ver.	Date	History	Contents	S.M. Rev. issued
1.0	2008.08	Official Release	—	—
1.1	2009.01	Supplement-1 (DI08-314)	• Change of DISASSEMBLY • Addition of HELP • Change of EXPLODED VIEW	No
1.2	2009.10	Supplement-2 (S2 09-221)	• Change of Exploded Views • Revision of HELP • Revision of Accessories S. M. Revised: Page 5-12	Yes